

Oregon Basin Outlook Report

May 1, 2011



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General Outlook

May 1, 2011

SUMMARY

Water users in Oregon can find some comfort in the cold and wet spring they have been experiencing. The cool spring conditions that began in mid March continued into April bringing valley rain and mountain snow. While some snow measurement sites have begun to melt, others continued to build snowpack during April. Streamflows, reservoirs, and the mountain snowpack have benefitted from these conditions.

Runoff from the large snowpacks could pose problems downstream if temperatures were to warm up rapidly. However, below normal temperatures are forecast throughout the region for the first half of May and it is expected that snow melt and spring runoff will be delayed or at least slowed.

As of May 1, all water supply forecasts points in Oregon are projected to have well above normal flows for the summer low flow period.

SNOWPACK

All basins in the state reported well above average snowpacks on May 1. During April, some sites gained snowpack while other sites began a slow melt out. Snowpack gain or melt was a function of aspect and elevation as the sun angle increased and days lengthened. New records were set on May 1 for high snow water content at 4 SNOTEL sites in the Wallowa and Elkhorn Mountains of northeast Oregon.

On May 1, the snowpack in Oregon ranged from 149 percent of average in the Upper Deschutes and Crooked basin to 220 percent of average in the Upper John Day basin.

PRECIPITATION

April continued to be colder and wetter than normal following a stormy and wet March. All basins in the state reported a wetter than normal April. Precipitation totals for the month ranged from 132 percent of average for the Burnt, Powder, Pine, Grande Ronde, and Imnaha basins to 200 percent of average for Lake County.

Precipitation during the months of March and April has more than made up for the very dry conditions experienced during January and February this year. Since the beginning of the water year, precipitation totals range from 110 percent of average for the Klamath basin to 135 percent of average for the Owyhee and Malheur.

RESERVOIRS

The storms of April resulted in high stream flows and improved reservoir storage throughout the state. Nearly all the reservoirs in the state gained storage during April, with some reservoirs reaching or nearing capacity. Other reservoirs are saving room for the remaining snowmelt.

The May 1 storage at 26 major irrigation reservoirs analyzed in this publication was 102 percent of average. A total of 2,677,700 acre feet of water were stored on May 1, representing 83 percent of useable capacity. Last year at this time, these same reservoirs stored 1,850,800 acre feet of water.

STREAMFLOW

April streamflows were well above average throughout the state due to the wet April weather and the onset of snow melt. In some cases, the April flows approached the total volume forecast for the entire April through September period.

Streamflow forecasts for the May through September period have risen due to the continued cool, wet conditions and the persistence of snow in the mountains. All water users in the state of Oregon are expected to have well above average streamflows to draw from this coming summer. Summer low flows are projected to be delayed until later than normal. In light of the remaining snow in the mountains, water users in low lying areas may want to pay particular attention to weather patterns governing melt rates in anticipation of high runoff. Water users may want to prepare for the greater range of probable streamflow volumes given in the following streamflow forecast tables.

A summary of streamflow forecasts for Oregon follows:

STREAM	PERIOD	PERCENT OF AVERAGE
Owyhee Reservoir Inflow	Apr-Sep	149
Grande Ronde R at La Grande	Apr-Sep	113
Umatilla R at Pendleton	Apr-Sep	123
Deschutes R at Benham Falls	Apr-Sep	106
MF Willamette R bl NF	Apr-Sep	133
Rogue R at Raygold	Apr-Sep	126
Upper Klamath Lake Inflow	Apr-Sep	132
Silvies R nr Burns	Apr-Sept	219

Some of these forecasts assume that normal weather conditions will occur from now to the end of the forecast period.

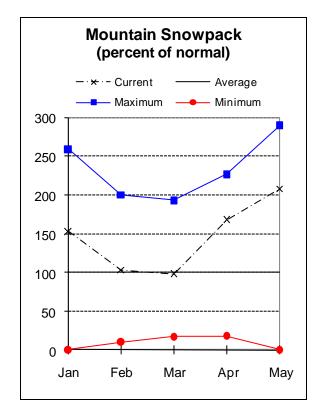
The forecasts in this bulletin are a result of coordinated activity between the Natural Resources Conservation Service and the National Weather Service as an effort to provide the best possible service to water users.

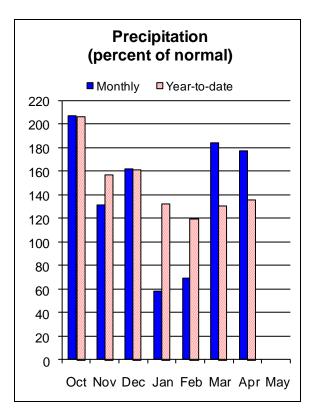
This report contains data furnished by the Oregon Department of Water Resources, U.S. Geological Survey, NOAA National Weather Service and other cooperators. This report will be updated monthly, January through June.



Owyhee and Malheur Basins

May 1, 2011





Water Supply Outlook

It was another wet month in the Owyhee and Malheur basin. Precipitation for the month of April was 177 percent of normal. Since the beginning of the water year, precipitation in the basin has been 135 percent of average, the highest in the state.

The snowpack grew in the upper elevations of the Owyhee and began to melt out in the lower elevations and the Malheur. The Malheur snowpack appears comparable to that experienced in 2008, with melt out projected to be much later than normal. The May 1 snowpack as measured at 10 SNOTEL sites in the Owyhee and Malheur was 208 percent of average.

During April, reservoirs in the basin captured some runoff and let the rest pass in anticipation of the snowmelt yet to come. May 1 storage at the 4 irrigation reservoirs in the basin was 107 percent of average or 91 percent of capacity.

The May through September streamflow forecasts range from 144 percent of average for the North Fork Malheur at Beulah to 154 percent of average for the Malheur River at Drewsey. Elsewhere in the basin the Owyhee River near Rome is forecast to be 152 percent of average for the same period. With the amount of snow remaining in the mountains, water users may want to prepare for the greater range of probable streamflow volumes given in the attached streamflow forecast tables.

For more information contact your local Natural Resources Conservation Service Office: Ontario - (541) 889-7637

OWYHEE AND MALHEUR BASINS

Streamflow Forecasts - May 1, 2011

	==========	Streamflo ======	w Foreca:	sts - Maː =======	y 1, 2011 =======	========	=========	========	.========
	1	<<====	= Drier =	=====]	Future Co	nditions ==	==== Wetter	====>>	
Forecast Point	Forecast Period	====== 90% (1000AF)	70% (1000A	 F)		0% (% AVG.)	30% (1000AF)	====== 10% (1000AF)	30-Yr Avg. (1000AF)
Malheur R nr Drewsey	MAY-JUL MAY-SEP	38 40	47 50	==== ==== 	54 57	154 154 154	======================================	73 77	35 37
NF Malheur R at Beulah (2)	MAY-JUL MAY-SEP	40 48	47 56		53 62	143 144	59 68	68 78	37 43
Owyhee R bl Owyhee Dam (2)	MAY-JUL MAY-SEP	230 265	290 330		335 380	149 149	385 430	460 515	225 255
Owyhee R nr Rome	MAY-JUL MAY-SEP	220 245	280 310		320 350	152 152	360 390	420 455	210 230
OWYHEE A	AND MALHEUR BASI (1000 AF) - End	-				Watershed Sn	EE AND MALHEU Owpack Analys	is - May 1,	2011
Reservoir	Usable Capacity	*** Usab This Year			======================================		Numbe of Data Si	r This ===== tes Last	_
BEULAH RES	60.0	53.3	48.9	51.2	======== Owyhe	======== e	======================================	248	207
BULLY CREEK	30.0	23.6	23.8	25.6	 Upper	Malheur	3	418	211
OWYHEE	715.0	666.1	371.2	613.6	 Jorda:	n Creek	2	275	243
WARMSPRINGS	191.0	159.1	78.8	149.9	 Bully	Creek	0	0	0
					 Willo	w Creek	0	0	0

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

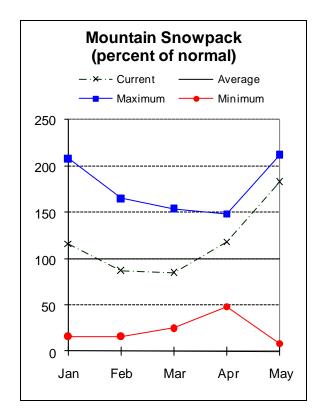
- (1) The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) The value is natural volume actual volume may be affected by upstream water management.

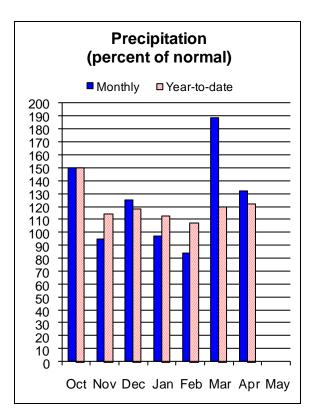
For more information contact your local Natural Resources Conservation Service Office: Ontario - (541) 889-7637



Burnt, Powder, Grand Ronde, and Imnaha Basins

May 1, 2011





Water Supply Outlook

March and April weather conditions brought an improvement to water supply conditions in the Burnt, Powder, Pine, Grande Ronde and Imnaha basins. Wet and cold weather patterns have increased streamflows and delayed snowmelt. April precipitation was 132 percent of average, the highest in the state. Since the beginning of the water year, precipitation in the basin has been 122 percent of average.

New records were set on May 1 for high snow water content at 4 SNOTEL sites in the Wallowa and Elkhorn Mountains. Many other sites were recording well above average snow water. The May 1 snowpack as measured at 15 SNOTEL sites and 2 snow courses was 183 percent of average. Reservoir storage changed little during April as reservoirs spilled April runoff in order to reserve room for future snowmelt. May 1 storage at Phillips Lake, Thief Valley and Unity reservoirs was 94 percent of average or 83 percent of capacity.

The May through September streamflow forecasts range from 113 percent of average for the Grande Ronde at La Grande to 168 percent of average for the Burnt near Hereford. Elsewhere in the basin, the Imnaha at Imnaha is forecast to be 135 percent of average for the same period. With the amount of snow remaining in the mountains, water users may want to prepare for the greater range of probable streamflow volumes given in the attached streamflow forecast tables.

For more information contact your local Natural Resources Conservation Service Office: Enterprise- (541) 426-4588; Baker City - (541) 523-7121; LaGrande - (541) 963-4178

Or visit: http://www.wcc.nrcs.usda.gov/cgibin/bor.pl

BURNT, POWDER, PINE, GRANDE RONDE AND IMNAHA BASINS

Streamflow Forecasts - May 1, 2011

	========	======== 	 Drier ====	========== == Future Co	nditions ==	====== ===== Wetter	======>> =====>>	========
Forecast Point	Forecast	•			_		·	
	Period	90% (1000AF)	70% (1000AF)	(1000AF)	0% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Bear Ck nr Wallowa	MAY-SEP	58	63	====================================	120	71	76	56
Burnt nr Hereford (2)	MAY-JUL MAY-SEP	23 26	27 29	29 32	168 168	31 35	35 38	17.3 19.1
Catherine Ck nr Union	MAY-JUL MAY-SEP	62 68	68 74	 72 78	147 147	76 82	82 88	49 53
Deer Ck nr Sumpter	MAY-JUL	13.7	15.6	16.8	160	18.0	19.9	10.5
Grande Ronde R at La Grande	MAY-JUL MAY-SEP	81 85	104 110	120 127	113 113	136 144	159 169	106 112
Grande Ronde R at Troy (1)	MAY-JUL MAY-SEP	830 945	1040 1160	1140 1260	125 125	1240 1360	1450 1570	910 1010
Imnaha R at Imnaha	MAY-JUL MAY-SEP	240 270	270 305	290 325	135 135	310 345	340 380	215 240
Lostine R nr Lostine	MAY-JUL MAY-SEP	114 124	121 131	125 136	121 121	129 141	136 148	103 112
Pine Ck nr Oxbow	MAY-JUL MAY-SEP	132 140	149 157	160 168	148 147	171 179	188 196	108 114
Powder R nr Sumpter	MAY-JUL MAY-SEP	54 55	61 62	 66 67	161 160	71 72	78 79	41 42
Wolf Ck Reservoir Inflow (2)	MAY-JUN	11.9	14.5	 16.3 =======	158	18.1	21	10.3

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table. The average is computed for the 1971-2000 base period.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

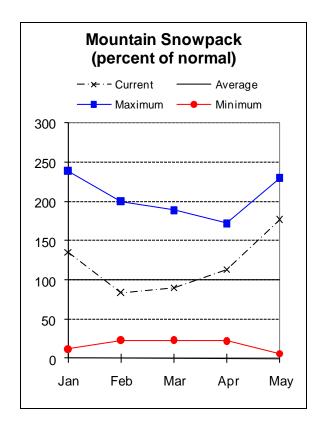
^{(2) -} The value is natural volume - actual volume may be affected by upstream water management.

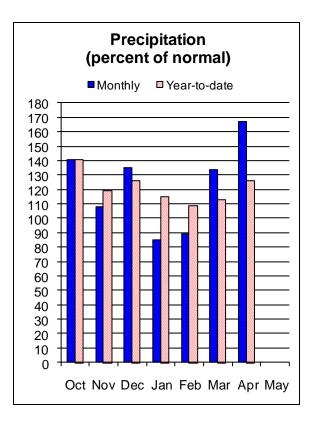
BURNT, POWDER, PINE, GF Reservoir Storage (10			BASINS		BURNT, POWDER, PINE, Watershed Snowpa		DE RONDE AND IMNAHA E nalysis - May 1, 2011				
Reservoir	Usable Capacity 	*** Usal This Year	ble Storaç Last Year	ge *** Avg	Watershed	Number of Data Sites	This Yea ======= Last Yr				
PHILLIPS LAKE	73.5	59.7	54.0	59.9	Upper Grande Ronde	9	274	217			
THIEF VALLEY	17.4	14.0	13.7	17.5	Wallowa	4	167	146			
UNITY	25.2	22.3	23.5	24.3	Imnaha	3	150	126			
WALLOWA LAKE	37.5	19.0	16.9	22.6	Powder	7	282	244			
WOLF CREEK	10.4	10.3	10.0	9.4	Burnt	2	677	350			



Umatilla, Walla Walla, Willow Rock, and Lower John Day Basins

May 1, 2011





Water Supply Outlook

March and April weather conditions brought an improvement to water supply conditions in the basins. Wet and cold weather patterns have increased streamflows and delayed snowmelt. April precipitation was 167 of average in the basin. Since the beginning of the water year, basin wide precipitation has been 126 percent of average.

The snowpack will be melting out later than normal in the basin this year. Emigrant Springs SNOTEL site was the only site to have melted out by May 1. The May 1 snowpack as measured at 7 SNOTEL sites and 2 snow courses was 177 percent of average. Reservoir storage changed little during April as reservoirs spilled April runoff in order to reserve room for future snowmelt. May 1 storage at Cold Springs and McKay reservoirs was 96 percent of average or 81 percent of capacity.

With lots of snow remaining in the mountains, forecasts at some points in the basins have increased notably since last month's Outlook Report. The May through September streamflow forecasts range from 106 percent of average for the South Fork Walla Walla near Milton Freewater to 202 percent of average for McKay Creek near Pilot Rock. Elsewhere in the basin, the Umatilla at Pendleton is forecast to be 123 percent of average for the same period. Water users in the basin are expected to have average or above average flows this coming summer.

For more information contact your local Natural Resources Conservation Service Office: Pendleton - (541) 278-8049; Heppner - (541) 676-5021; Condon - (541) 384-2671 Or visit: http://www.wcc.nrcs.usda.gov/cgibin/bor.pl

IIMATTITA WALLA WA

UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY BASINS Streamflow Forecasts - May 1, 2011

		 <<=====	 Drier ====	=== Future Co	onditions ==	===== Wetter	====>>	
Forecast Point	Forecast Period	======= 90%	 70%		Exceeding * == 50%	======================================	:====== 10%	30-Yr Avg.
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
Butter Ck nr Pine City	MAY-JUL MAY-SEP	4.8 5.7	6.8 7.7	8.1 9.0	172 173	9.4 10.3	11.4 12.3	4.7 5.2
McKay Ck nr Pilot Rock	MAY-SEP	13.2	20	25	202	30	37	12.4
Rhea Ck nr Heppner	MAY-JUL	4.4	6.2	7.4	218	8.6	10.4	3.4
Umatilla R ab Meacham Ck nr Gibbon	MAY-JUL MAY-SEP	32 39	42 49	49 56	117 117	56 63	66 73	42 48
Umatilla R at Pendleton	MAY-JUL MAY-SEP	53 59	78 85	 96 103	123 123	114 121	139 147	78 84
SF Walla Walla R nr Milton-Freewater	MAY-JUL MAY-SEP	31 44	37 50	 40 54	105 106	43 58	49 64	38 51
Willow Ck ab Willow Ck Lake nr Heppr	n MAY-JUL	4.0	5.8	6.9	157	8.0	9.8	4.4

UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY BASINS

BASINS

Reservoir Storage (1000 AF) - End of April

| UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY

Watershed Snowpack Analysis - May 1, 2011

				'				
Reservoir	Usable Capacity	*** Usa This	ble Storaç Last	ge *** 	Watershed	Number of	This Yea	r as % of
vezetiott	Capacity	Year	Year	Avg	watershed	Data Sites	Last Yr	Average
COLD SPRINGS	50.0	35.2	21.3	42.7	Walla Walla	3	278	177
MCKAY	73.8	64.6	35.8	61.6	Umatilla	7	284	199
WILLOW CREEK	1.8	1.7	0.4		McKay Creek	4	0	298

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

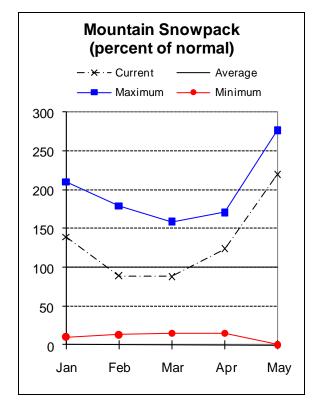
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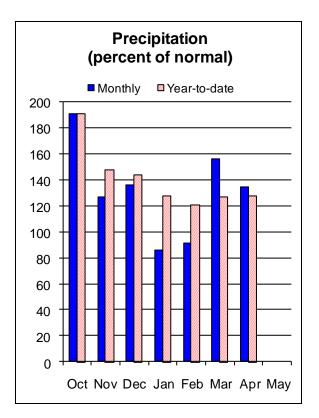
^{(2) -} The value is natural volume - actual volume may be affected by upstream water management.



Upper John Day Basin

May 1, 2011





Water Supply Outlook

The Upper John Day basin recorded the most abundant May 1 snowpack of all the basins in Oregon this year. Two SNOTEL sites in the basin recorded increases in the snowpack during April while the rest began to slowly melt out. The May 1 snowpack as measured at 13 SNOTEL sites in the Upper John Day basin was a robust 220 percent of average. The May 2011 snowpack is similar to May 2008 conditions in the Upper John Day.

A wet and cold April brought valley rain, mountain snow and increased streamflows to the Upper John Day. April precipitation was 135 percent of average. Since the beginning of the water year, precipitation in the Upper John Day has been 128 percent of average.

With an abundant snowpack, forecasts at all points in the basin have increased notably since last month's Outlook Report. The May through September streamflow forecasts range from 120 percent of average for Camas Creek near Ukiah to 174 percent of average for Mountain Creek near Mitchell. Elsewhere in the basin the North Fork John Day at Monument is forecast to be 141 percent of average for the same period.

UPPER JOHN DAY BASIN Streamflow Forecasts - May 1, 2011

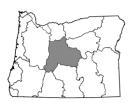
	.=======	301eam110w	Forecasts	. на =====	y 1, 2011 =======		.======			=====	
			Drier ===							i	
Forecast Point	Forecast Period	======= 90% (1000AF)	70% (1000AF)		5	xceeding * 0% (% AVG.)		======================================	10% (1000	İ	30-Yr Avg (1000AF)
Camas Ck nr Ukiah	MAY-JUL MAY-SEP	12.6 13.5	18.2 19.2	- 	22 23	120 120	 	26 27		1 3	18.4 19.2
MF John Day R at Ritter	MAY-JUL MAY-SEP	82 88	101 107		113 120	145 145		125 133	14 15		78 83
NF John Day R at Monument	MAY-JUL MAY-SEP	385 405	470 490		530 550	141 141		590 610	67 69		375 390
Mountain Ck nr Mitchell	MAY-JUL MAY-SEP	3.4 3.3	4.2 4.2		4.7 4.7	174 174		5.2 5.2	6. 6.		2.7 2.7
Strawberry Ck nr Prairie City	MAY-JUL MAY-SEP	8.0 9.0	9.2 10.3		10.0	152 152	 	10.8 11.9	12. 13.		6.6 7.3
UPPER JORGEN Storage (10	DHN DAY BASIN 000 AF) - End	of April		====	======= 	======== Watershed		OHN DAY i k Analys		ay 1,	 2011
Reservoir	Usable Capacity		Le Storage Last Year	===== * * * Avg	======= Water 	shed		Numbe of Data Si		_	======================================
				=====	====== North	Fork Johr	Day	======================================	=====	===== 375	206
					 John 	Day above	Kimberl	y 5		328	217

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

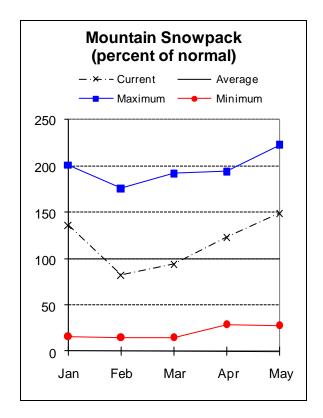
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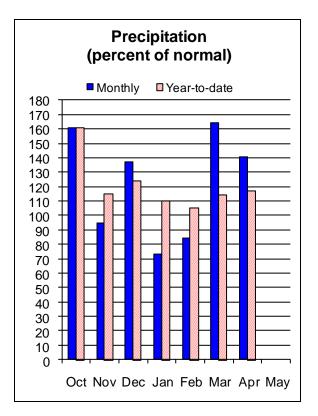
For more information contact your local Natural Resources Conservation Service Office: John Day - (541) 575-0135



Upper Deschutes and Crooked Basins

May 1, 2011





Water Supply Outlook

Wet and cold weather conditions in March and April have increased streamflows and delayed snowmelt in the Upper Deschutes and Crooked River basins. On May 1 the snowpack was a robust 149 percent of average. Even so, the Upper Deschutes and Crooked River basins reported the lowest basin snowpack average in the state on May 1. Snowpack measurements were collected at 2 snow courses and 14 SNOTEL sites for the May 1 survey.

April precipitation was 141 percent of average. Since the beginning of the water year, precipitation in the Upper Deschutes and Crooked River basin has been 117 of average. Reservoir storage changed little during April as reservoirs spilled April runoff in order to reserve room for future snowmelt. May 1 storage at 5 irrigation reservoirs in the Upper Deschutes and Crooked River basin was 108 percent of average or 93 percent of capacity.

Ochoco and Prineville Reservoir Inflow have had a notable increase in their summer streamflow forecasts since the April Outlook Report. The May through September streamflow forecasts in the Upper Deschutes and Crooked basin range from 106 percent of average for Deschutes River at Benham Falls near Bend to 187 percent of average for Prineville Reservoir Inflow. Elsewhere in the basin, Crane Prairie Reservoir Inflow is forecast to be 131 percent of average for the same period.

For more information contact your local Natural Resources Conservation Service Office: Redmond (541) 923-4358

UPPER DESCHUTES AND CROOKED BASINS

Streamflow Forecasts - May 1, 2011

		<<=====	Drier ====	== Future Co	nditions ===	==== Wetter	====>>	
Forecast Point	Forecast Period	 ====== 90% (1000AF)	70% (1000AF)	5	xceeding * = 0% (% AVG.)	30% (1000AF)	======= 10% (1000AF)	30-Yr Avg. (1000AF)
Crane Prairie Reservoir Inflow (2)	MAY-JUL MAY-SEP	53 94	60 103	=====================================	131 131	68 115	75 124	49 83
Crescent Ck nr Crescent (2)	MAY-JUL MAY-SEP	13.7 18.7	16.9 22	19.0	135 135	21 26	24 29	14.1 17.8
Deschutes R at Benham Falls nr Bend	MAY-JUL MAY-SEP	260 435	275 455	 285 470	106 106	295 485	310 505	270 445
Deschutes R bl Snow Ck nr La Pine	MAY-JUL MAY-SEP	23 50	28 57	 31 61	115 115	34 65	39 72	27 53
Little Deschutes R nr La Pine (2)	MAY-JUL MAY-SEP	57 67	64 75	 69 81	133 133	74 87	81 95	52 61
Ochoco Reservoir Inflow (2)	MAY-JUL MAY-SEP	10.2	15.1 14.9	 18.4 18.4	179 179	22 22	27 27	10.3
Prineville Reservoir Inflow (2)	MAY-JUL MAY-SEP	57 58	72 74	 82 84	186 187	92 94	107 110	44 45
Whychus Ck nr Sisters	MAY-JUL MAY-SEP	32 45	35 47	 36 49	113 111	37 51	40 53	32 44

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

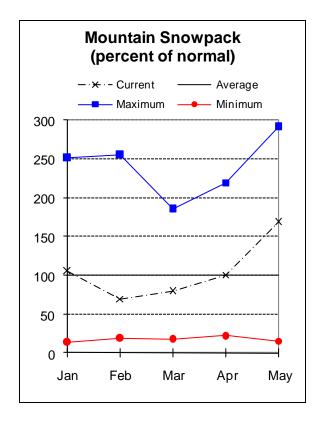
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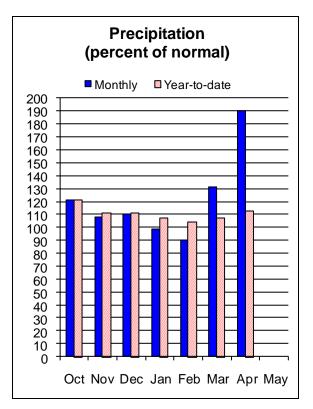
UPPER DESCHUTES Reservoir Storage (10					UPPER DESCHUTES Watershed Snowpack			 11
Reservoir	Usable Capacity	*** Usa This Year	ble Stora Last Year	ge *** 	Watershed	Number of Data Sites		======= r as % of ====== Average
CRANE PRAIRIE	55.3	51.0	46.8	44.9	Crooked	3	355	254
CRESCENT LAKE	86.9	75.1	67.9	55.5	Little Deschutes	4	157	148
осносо	47.5	38.4	39.8	36.0	Deschutes above Wickiup	R 4	194	164
PRINEVILLE	153.0	144.0	150.6	145.0	Tumalo and Squaw Creeks	4	172	137
WICKIUP	200.0	197.8	190.2	188.5 				



Hood, Mile Creeks, and Lower Deschutes Basins

May 1, 2011





Water Supply Outlook

April was much colder and wetter than normal in the Hood, Mile Creeks and Lower Deschutes basins. April precipitation was a wet 190 percent of average. Since the beginning of the water year, precipitation in the basin has been 113 percent of average.

The snowpack gained at most sites in the basin during April - reaching 169 percent of average on May 1. Snow measurements were collected at 8 SNOTEL sites in the Hood, Mile Creeks and Lower Deschutes basin for the May 1 survey. The May 2011 snowpack resembles May 2009 conditions in the basin.

The May through September streamflow forecasts range from 133 percent of average for the West Fork Hood River near Dee to 138 percent of average for the Hood River at Tucker Bridge. This represents a notable increase from last month's Outlook Report.

HOOD, MILE CREEKS AND LOWER DESCHUTES BASINS Streamflow Forecasts - May 1, 2011

	=======================================	======================================	======================================		Future Co	nditions ==	====== Wetter	:=====>> 	
Forecast Point	Forecast	1		=== Ch		Acceding		1	
	Period	90% (1000AF)	70% (1000AF)	 	(1000AF)	0% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
WF Hood River nr Dee	MAY-JUL	79	94		105	133	116	131	79
Hood R At Tucker Bridge	MAY-JUL MAY-SEP	184 240	200 255	 	210 270	137 138	220 285	235 300	153 196
HOOD, MILE CREEK Reservoir Storage			======= NS			•	EEKS AND LOWEF nowpack Analys		
Reservoir	Usable Capacity	*** Usab This Year	le Storage Last Year	*** Avg	 Water 	shed	Numbe of Data Si	=====	Year as % of ======= Yr Average
					: ======			1.70	

Reservoir		*** Usab This Year	ole Storage Last Year	e *** Avg	Watershed	Number of Data Sites	This Yea: ======= Last Yr	r as % of ====== Average
CLEAR LAKE (WASCO)	11.9	6.5	4.7	5.2	Hood River	5	172	151
				 	Mile Creeks	0	0	0
				 	White River	4	175	130
=======================================	========	.=======	:=======			:========	=======	=======

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

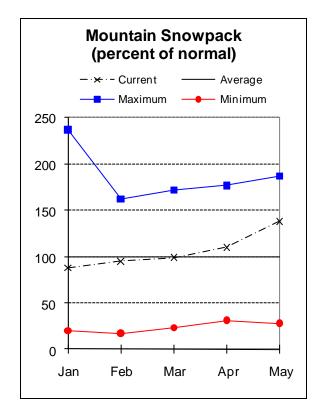
- (1) The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) The value is natural volume actual volume may be affected by upstream water management

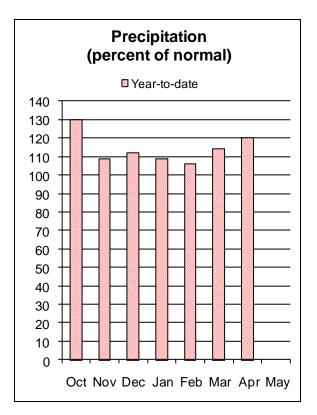
For more information contact your local Natural Resources Conservation Service Office: The Dalles (541) 296-6178



Lower Columbia Basin

May 1, 2011





Water Supply Outlook

Wet and cold weather throughout the region brought new snow to the mountains of the Columbia basin during April. Temperatures during April were 6 to 8 degrees below normal slowing seasonal snowmelt. The snowpack in the Columbia Basin above The Dalles was 138 percent of average on May 1, an increase in 28 percentage points over last month. Years with similar May 1 snowpack were 1971, 1975, 1982, and 1999. Since the beginning of the water year, precipitation in the Columbia basin above The Dalles has been 120 percent of average. Locally, precipitation in the Sandy basin was 196 percent of average during April.

In light of the remaining snow in the mountains, water users in low lying areas may want to pay particular attention to weather patterns governing melt rates in anticipation of high runoff.

The summer flow forecast for the Columbia at The Dalles has been increasing steadily over the last few months as the cool, wet spring has boosted streamflows in tributaries throughout the basin and added snow to the mountains. The current forecast for the May through September period is now 123 of average or 104 million acre feet. For the Sandy near Marmot, the May through September streamflow forecast is 127 percent of average.

For more information contact your local Natural Resources Conservation Service Office: Oregon City - (503) 656-3499

			OWER COLUMB V Forecasts			L					
Forecast Point	Forecast Period		Toler === 70% (1000AF)	== Cha	ance Of E	enditions Exceeding * 50% (% AVG.)	· ======	30%		 30	-Yr Avg.
Columbia R at The Dalles (2)	MAY-JUL MAY-SEP	80400 95600	84600 101000	:	87400 104000	124 123		90200 07000 1	94400 L12000		70500 84500
Sandy R nr Marmot	MAY-JUL MAY-SEP	220 275	245 310		265 330	127 127		285 350	310 385		209 259
LOWER CO Reservoir Storage (10	DLUMBIA BASIN 000 AF) - End	of April			======= ======================	Watershed		======= DLUMBIA B <i>I</i> k Analysis	-	, 201	1
Reservoir	Usable Capacity 	*** Usabl This Year	le Storage Last Year	*** Avg	 Water	rshed		Number of Data Site	====		as % of ===== Average
		=======	=======	=====	======= Sand <u>\</u> 	 /		7	197	=====	167

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

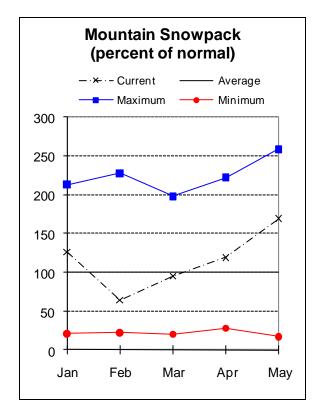
The average is computed for the 1971-2000 base period.

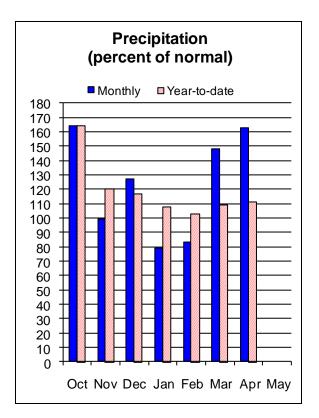
- (1) The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) The value is natural volume actual volume may be affected by upstream water management.



Willamette Basin

May 1, 2011





Water Supply Outlook

Following a dry January and February, March and April rebounded with well above average precipitation in the Willamette basin. April precipitation was 163 percent of average. Since the beginning of the water year, precipitation in the basin has been 111 percent of average.

The May 1 snowpack as measured at 19 SNOTEL sites was 169 percent of average. It is expected that the snowpack will melt out much later than normal.

April runoff boosted storage at all of the reservoirs in the basin. Reservoirs in the Willamette basin are operating well below capacity in anticipation of additional snowmelt to come. On May 1, storage at Timothy and Hagg Lake reservoirs was 102 percent of average or 97 percent of capacity.

Since the April Outlook Report, summer streamflow forecasts have increased notably at a number of forecast points in the basin. The May through September streamflow forecasts range from 109 percent of average for the North Santiam at Mehama to 156 percent of average for Fern Ridge Lake Inflow. Elsewhere in the basin the McKenzie River near Vida is forecast to be 125 percent of average for the same period.

For more information contact your local Natural Resources Conservation Service Office: Eugene - (541) 465-6436; Portland - (503) 231-2270; Tangent - (541) 967-5925; Oregon City - (503) 656-3499; Hillsboro - (503) 648-3174; McMinnville - (503) 472-1474 Salem - (503) 399-5746; Dallas - (503) 623-5534 _____

WILLAMETTE BASIN Streamflow Forecasts - May 1, 2011

	=======	<<=====	======================================	======================================	nditions =	====== Wetter	· ====>>	=======================================
Forecast Point	Forecast	90%	70%	5	0%	30%	10%	30-Yr Avg.
	Period	(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
Blue Lake Inflow (1,2)	MAY-JUN MAY-SEP	25 30	42 47	=====================================	116 117	====================================	75 80	43 47
Clackamas R at Estacada	MAY-JUL	360	420	460	110	500	560	418
	MAY-SEP	470	535	580	110	625	690	526
Clackamas R ab Three Lynx (2)	MAY-JUL	280	320	345	111	370	410	312
	MAY-SEP	375	415	445	111	475	515	400
Cottage Grove Lake Inflow (1,2)	MAY-JUN MAY-SEP	5.3 6.3	18.2 19.8	 24 26	132 130	 30 32	43 46	18.2 20
Cougar Lake Inflow (1,2)	MAY-JUN	119	147	160	137	173	200	117
	MAY-SEP	174	205	220	137	235	265	161
Detroit Lake Inflow (1,2)	MAY-JUN	205	285	325	114	365	445	286
	MAY-SEP	345	450	495	113	540	645	438
Dorena Lake Inflow (1,2)	MAY-JUN MAY-SEP	26 38	67 80	 86 99	132 132	105 118	146 160	65 75
Fall Creek Lake Inflow (1,2)	MAY-JUN MAY-SEP	16.7 9.4	46 52	 60 72	115 114	 74 92	103 135	52 63
Fern Ridge Lake Inflow (1,2)	MAY-JUN	12.4	24	29	156	34	46	18.6
	MAY-SEP	7.1	10.9	16.5	156	22	35	10.6
Foster Lake Inflow (1,2)	MAY-JUN	240	285	305	121	325	370	253
	MAY-SEP	320	370	390	122	410	460	321
Green Peter Lake Inflow (1,2)	MAY-JUN MAY-SEP	116 161	177 230	 205 260	122 121	235 290	295 360	168 215
Hills Creek Reservoir Inflow (1,2)	MAY-JUN MAY-SEP	144 235	186 280	 205 300	133 133	 225 320	265 365	154 225

For more information contact your local Natural Resources Conservation Service Office:

Eugene - (541) 465-6436; Portland - (503) 231-2270; Tangent - (541) 967-5925; Oregon City - (503) 656-3499; Hillsboro - (503) 648-3174; McMinnville - (503) 472-1474 Salem - (503) 399-5746; Dallas - (503) 623-5534

WILLAMETTE BASIN Streamflow Forecasts - May 1, 2011

	=======					====== Wetter		
Forecast Point	Forecast	 =======	:=======	= Chance Of E	xceeding * =	:========	·======	
	Period	90%	70%	5	0% [30%	10%	30-Yr Avg.
		(1000AF)	(1000AF)	(1000AF)		(1000AF)	(1000AF)	(1000AF)
				====================================	 			
Little North Santiam R nr Mehama (1) MAY-JUN	31	64	79	111	94	127	71
	MAY-SEP	44	81	98	110	115	152	89
Lookout Point Lake Inflow (1,2)	MAY-JUN	370	485	l I 535	135 I	585	700	395
	MAY-SEP	560	695	755	135	815	950	558
McKenzie R bl Trail Bridge (2)	MAY-JUL	199	220	l I 230	119 I	240	260	193
McKenzie K bi itali bilage (2)	MAY-SEP	290	315	330	118	345	370	279
Makanaia Dana Vida (1.0)	MANA TIINI	405	600	(6 0	125 I	700	815	E10
McKenzie R nr Vida (1,2)	MAY-JUN MAY-SEP	485 905	600 1050	650 1110	125 125	1170	1320	519 888
					į			
Mohawk R nr Springfield	MAY-JUL	34	48	57 I	136	66	80	42
Oak Grove fk ab Power Intake	MAY-JUL	98	106	112	124	118	126	90
	MAY-SEP	139	150	157	124	164	175	127
North Santiam R at Mehama (1,2)	MAY-JUN	255	370	I 425	109	480	595	390
	MAY-SEP	415	560	625	109	690	835	572
South Santiam R at Waterloo (2)	MAY-JUN	121	198	l l 250	125	300	380	200
200011 201121011 11 00 110021200 (2)	MAY-SEP	305	385	440	125	495	575	353
Scoggins Ck nr Gaston (2)	MAY-JUL	3.3	5.2	 6.4	119 I	7.6	9.5	5.4
beoggins ek ni daston (2)	1111 001	3.3	3.2		110	7.0	J. 3	J. 1
Thomas Ck nr Scio	MAY-JUL	22	37	47	121	57	72	39
Willamette R at Salem (1,2)	MAY-JUN	1590	2240	l 2530	115 I	2820	3470	2203
(-,-,	MAY-SEP	2460	3170	3490	115	3810	4520	3036

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table. The average is computed for the 1971-2000 base period.

For more information contact your local Natural Resources Conservation Service Office:

Eugene - (541) 465-6436; Portland - (503) 231-2270; Tangent - (541) 967-5925; Oregon City - (503) 656-3499; Hillsboro - (503) 648-3174; McMinnville - (503) 472-1474 Salem - (503) 399-5746; Dallas - (503) 623-5534

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^{(2) -} The value is natural volume - actual volume may be affected by upstream water management.

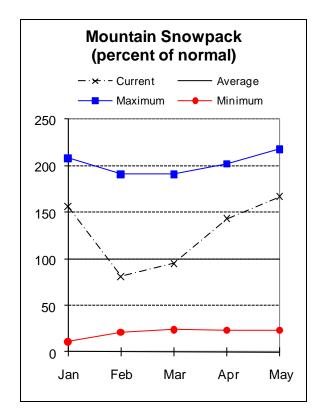
	WILLAMETTE BASIN orage (1000 AF) - End	of April		1	WILLAMETTE BASIN Watershed Snowpack Analysis - May 1, 2011					
Reservoir	Usable Capacity	*** Usa This	ble Stora Last		Watershed	Number of		======= r as % of =======		
		Year 	Year =======	Avg	=======================================	Data Sites	Last Yr	Average		
BLUE RIVER	85.5	69.9	74.9	70.1	Clackamas	4	363	222		
COTTAGE GROVE	29.8	23.8	24.7	25.9	McKenzie	7	216	150		
COUGAR	155.2	122.8	83.3	188.3	Row River	1	224	142		
DETROIT	300.7	268.2	258.2	293.6	Santiam	6	333	196		
DORENA	70.5	53.7	57.8	62.0	Middle Fork Willamette	7	172	152		
FALL CREEK	115.5	99.5	106.5	96.8						
FERN RIDGE	109.6	93.6	92.0	93.4						
FOSTER	29.7	3.3	3.1	11.7						
GREEN PETER	268.2	230.8	238.7	286.4						
HILLS CREEK	200.2	172.9	144.8	209.8						
LOOKOUT POINT	337.0	272.6	182.6	265.0						
TIMOTHY LAKE	61.7	58.5	60.6	56.9						
HENRY HAGG LAKE	53.0	53.3	53.1	52 . 7						

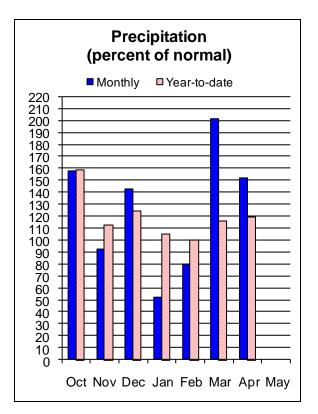
The average is computed for the 1971-2000 base period.



Rogue and Umpqua Basins

May 1, 2011





Water Supply Outlook

Following a dry January and February, March and April rebounded with well above average precipitation in the Rogue and Umpqua basins. April precipitation was 152 percent of average. Since the beginning of the water year, precipitation in the basins has been 119 percent of average.

The snow began to melt out slowly at most sites in the basin during April while other sites continued to gain snow pack during the month. The May 2011 snowpack resembles May 2008 conditions in the basin. On May 1, the snowpack as measured at 12 snow courses and 12 SNOTEL sites was 167 percent of average.

April runoff filled reservoirs in the Rogue and Umpqua basin to near capacity. May 1 storage at the 5 irrigation reservoirs in the basin was 114 percent of average or 94 percent of capacity.

The May through September streamflow forecasts range from 126 percent of average for South Fork Big Butte Creek near Butte Falls to 177 percent of average for Cow Creek near Azalea. Elsewhere in the basin, Applegate Lake inflow is forecast to be 147 percent of average for the same period.

For more information contact your local Natural Resources Conservation Service Office:

Roseburg - (541) 673-8316; Medford - (541) 776-4267

Or visit: http://www.wcc.nrcs.usda.gov/cgibin/bor.pl

ROGUE AND UMPQUA BASINS Streamflow Forecasts - May 1, 2011

	:======					======= ===== Wetter		
Francisch British		 -		Character O.S. T			į	
Forecast Point	Forecast Period	====== 90%	70%		exceeding * =	 30%	10%	30-Yr Avg.
		(1000AF)	(1000AF)		(% AVG.)	(1000AF)	(1000AF)	(1000AF)
Applegate Lake Inflow (2)	MAY-JUL	======== 85	97	106	147	115	 127	72
	MAY-SEP	93	106	115	147	124	137	78
SF Big Butte Ck nr Butte Falls	MAY-JUL	21	25	28	127	31	35	22
-	MAY-SEP	30	36	39	126	42	48	31
Cow Ck nr Azalea (2)	MAY-JUL	8.5	11.8	14.0	177	16.2	19.5	7.9
	MAY-SEP	10.2	13.7	16.1	177	18.5	22	9.1
Hyatt Prairie Reservoir Inflow (2)	MAY-JUL	2.2	3.2	3.9	163	4.6	5.6	2.4
Illinois R at Kerby	MAY-JUL	79	105	123	148	141	167	83
	MAY-SEP	88	115	133	148	151	178	90
NF Little Butte Ck nr Lakecreek (2)	MAY-JUL	25	29	32	128	35	39	25
	MAY-SEP	41	46	50	127	54	59	40
Lost Creek Lake Inflow (2)	MAY-JUL	450	490	515	136	540	580	380
	MAY-SEP	620	670	700	136	730	780	515
Rogue R at Raygold (2)	MAY-JUL	465	550	605	126	660	745	480
	MAY-SEP	660	750	810	126	870	960	645
Rogue R at Grants Pass (2)	MAY-JUL	490	580	640	136	700	790	470
	MAY-SEP	670	770	835	136	900	1000	615
Sucker Ck bl Ltl Grayback Ck nr Holl		37	43	47	152	51	57	31
	MAY-SEP	43	49	53	151	57	63	35
North Umpqua R at Winchester	MAY-JUL	560	655	720	147	785	880	490
	MAY-SEP	745	840	905	147	970	1070	615
South Umpqua R nr Brockway	MAY-JUL	215	280	330	173	380	445	191
South Impana B at Hillor	MAY-SEP	240 111	315 143	365 165	174 156	415 187	490 220	210 106
South Umpqua R at Tiller	MAY-JUL MAY-SEP	126	143	181	156	205	235	116

For more information contact your local Natural Resources Conservation Service Office:

Roseburg - (541) 673-8316; Medford - (541) 776-4267

ROGUE AND UMPQUA BASINS | ROGUE AND UMPQUA BASINS

Reservoir Storage (1000 AF) - End of April Watershed Snowpack Analysis - May 1, 2011 ______ Usable | *** Usable Storage *** Number This Year as % of of _____ Reservoir Capacity This Last Watershed Data Sites Last Yr Average Year Year Avq | APPLEGATE 75.2 56.0 61.5 64.5 I 132 141 Applegate EMIGRANT LAKE 39.0 38.3 35.3 35.9 | Bear Creek 123 131 8.0 5.4 6.2 I FISH LAKE 5.1 Little Butte Creek 208 212 FOURMILE LAKE 16.1 10.9 9.7 11.0 | Illinois 309 314 HOWARD PRAIRIE 60.0 60.5 42.1 48.8 I North Umpqua 217 184 HYATT PRAIRIE 16.1 15.9 12.8 13.3 I Rogue River above Grants 19 166 169 139.1 LOST CREEK 315.0 160.6 283.2 |

The average is computed for the 1971-2000 base period.

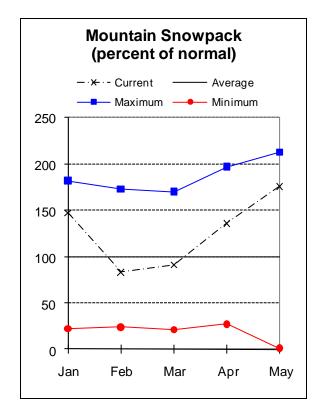
- (1) The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) The value is natural volume actual volume may be affected by upstream water management.

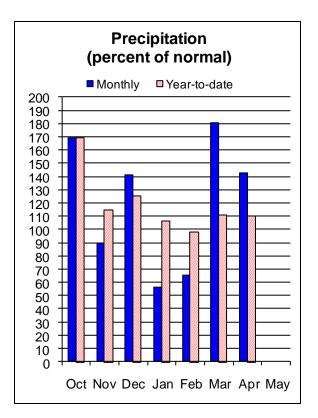
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.



Klamath Basin

May 1, 2011





Water Supply Outlook

Following an extremely dry January and February, a series of cold wet storms in March and April delivered well above average precipitation to the Klamath basin. The wet spring boosted the total water year precipitation to 110 of average on May 1. April precipitation was 143 percent of average.

The cool, wet spring has sustained the snowpack in the Klamath basin. On May 1 the snowpack in the Klamath basin was 176 percent of average. May 1 snowpack measurements were taken at 15 SNOTEL sites and 4 snow courses. Water users in the basin may remember the snowpack of May 2008. The May 2011 snowpack is above May 2008 levels.

Klamath basin reservoir storage increased during April as spring rains and snowmelt brought higher than normal streamflows to the entire basin. On May 1, storage at Clear Lake (CA), Gerber Reservoir and Upper Klamath Lake was 92 percent of average or 67 percent of capacity. Upper Klamath Lake was near capacity on May 1.

Since the April Outlook Report, summer streamflow forecasts have increased slightly at forecast points in the basin. The May through September streamflow forecasts range from 132 percent of average for both Upper Klamath Lake Inflow and the Williamson River below Sprague River near Chiloquin to 156 percent of average for Gerber Reservoir Inflow.

For more information contact your local Natural Resources Conservation Service Office: Klamath Falls - (541) 883-6932

KLAMATH BASIN Streamflow Forecasts - May 1, 2011

		<<=====	Drier ====	=== Futur	e Cond	itions	======	Wetter	====>>	
Forecast Point	Forecast	=======	:=======	== Chance	Of Exc	eeding *	======		======	
	Period	90% (1000AF)	70% (1000AF)	(1000	50%	% AVG.)	(1	30% L000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
		(1000AF) ========	(1000AF)	(1000	Af) (:	6 AVG.)	-===== 	========	(1000AF)	(1000AF)
Clear Lake Inflow (2)	MAY-JUL	10.4	20	1 2	7	140		34	44	19.3
	MAY-SEP	21	30	3	6	139		42	51	26
Gerber Reservoir Inflow (2)	MAY-JUL	0.4	5.9	10.	0	156		14.1	20	6.4
	MAY-SEP	0.4	6.3	10.	3	156		14.3	20	6.6
Sprague R nr Chiloquin	MAY-JUL	141	168	18		145		205	230	128
	MAY-SEP	180	205	22	5	145		245	270	155
Upper Klamath Lake Inflow (1,2)	MAY-JUL	250	310	33	5	131	i	360	420	255
	MAY-SEP	355	420	45	0	132		480	545	340
Williamson R bl Sprague R nr Chiloc	qu MAY-JUL	220	250	27	0	132		290	320	205
	MAY-SEP	300	330	35	0	132		370	400	265
KLAMA	ATH BASIN						KLAN	ATH BASI	N	
Reservoir Storage (100	00 AF) - End	of April		 	Wa [.]	tershed	Snowpack	k Analysi	s - May 1,	, 2011
	Usable		e Storage					Number	This	Year as % of
Reservoir	Capacity 	This Year	Last Year <i>I</i>	l W Avg	Watershed			of Data Sit		 Yr Average

Reservoir	Usable *** Usable Storage *** Capacity This Last Watershed		Number of	This Year as % of				
	I	Year	Year	Avg		Data Sites	Last Yr	Average
CLEAR LAKE (CALIF)	513.3	182.4	78.2	264.3	Lost	2	168	125
GERBER	94.3	74.9	36.1	72.9	Sprague	5	202	258
UPPER KLAMATH LAKE	523.7	500.6	327.1	483.4	Upper Klamath Lake	7	159	159
				 	Williamson River	5	165	148

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

For more information contact your local Natural Resources Conservation Service Office: Klamath Falls - (541) 883-6932

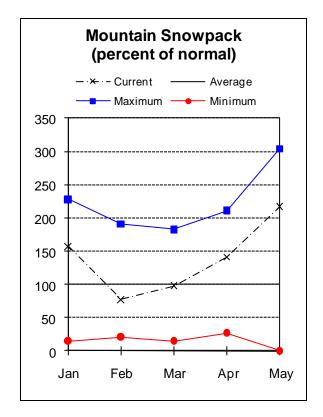
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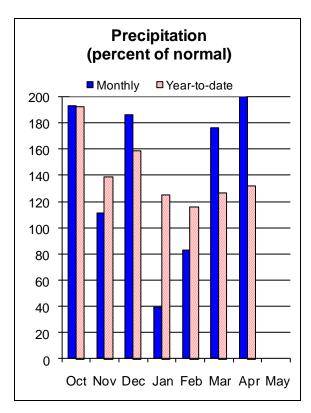
^{(2) -} The value is natural volume - actual volume may be affected by upstream water management.



Lake County and Goose Lake

May 1, 2011





Water Supply Outlook

Following an extremely dry January and February, a series of cold wet storms in March and April delivered well above average precipitation to Lake County and Goose Lake basins. April precipitation was 200 percent of average, the highest in the state. Since the beginning of the water year, precipitation in the basin has been 132 percent of average.

On May 1, the snowpack as measured at 9 SNOTEL sites in Lake County and Goose Lake basins was 217 percent of average. Snow conditions this year are similar to those observed in May 2006.

Cottonwood reservoir reached capacity during March runoff. Drews reservoir filled during April. As of May 1, both reservoirs were at capacity. Current storage is 126 percent of average.

Since the April Outlook Report, summer streamflow forecasts have increased notably at all forecast points in the basin. The May through September streamflow forecasts range from 168 percent of average for the Chewaucan River near Paisley to 235 percent of average for Silver Creek near Silver Lake. Elsewhere in the basin Honey Creek near Plush is forecast to be 191 percent of average for the same period.

For more information contact your local Natural Resources Conservation Service Office: Lakeview - (541) 947-2202

LAKE COUNTY AND GOOSE LAKE BASINS

Streamflow Forecasts - May 1, 2011

		<<=====	Drier ==	====	Future Co	onditions ==	==== Wette	r ====>	>	
Forecast Point	Forecast Period	====== 90% (1000AF)	70% (1000AF)	1		Exceeding * = 50% (% AVG.)	30% (1000AF)	10% (1000A	į ;	30-Yr Avg. (1000AF)
Chewaucan R nr Paisley	========= MAY-JUL	-====== 70	81	===	====== 88	:====== : 169	=========== 95	====== 106		======================================
	MAY-SEP	76	87		94	168	101	112		56
Deep Ck ab Adel	MAY-JUL	61	72		79	176	86	97		45
	MAY-SEP	64	75		83	177	91	102		47
Honey Ck nr Plush	MAY-JUL	14.8	18.5		21	194	24	27		10.8
	MAY-SEP	14.7	18.4		21	191	24	27		11.0
Silver Ck nr Silver Lake (2)	MAY-JUL	8.3	11.0		12.8	236	14.6	17.3		5.4
	MAY-SEP	9.4	12.1		14.0	235	15.9	18.6		6.0
Twentymile Ck nr Adel	MAY-JUL	10.9	18.1		23	217	28	35		10.6
	MAY-SEP	11.8 	19.1 	 :=====	24 ======	216	29 ======	36 ======		11.1
LAKE COUNTY F Reservoir Storage (1	AND GOOSE LAKE 1000 AF) - End				 	LAKE COU	NTY AND GOOS owpack Analy			011
======================================	Usable		e Storage	***		b - d	Numbe Numbe	er Tl	nis Ye	ar as % of
Reservoir	Capacity 	This Year	Last Year	Avg	Water	rsnea	Data S.	ites L	ast Yr	Average
COTTONWOOD	8.7	9.3	6.3	6.7	Chewa	ucan River	3	1	 97	234
DREWS	63.0	63.5	18.1	51.0	Deep	Creek	0		0	0
					 Drew	Creek	2		0	111
					 Honey	v Creek	0		0	0

The average is computed for the 1971-2000 base period.

- (1) The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) The value is natural volume actual volume may be affected by upstream water management.

For more information contact your local Natural Resources Conservation Service Office: Lakeview - (541) 947-2202

Silver Creek (Lake Co.) 4

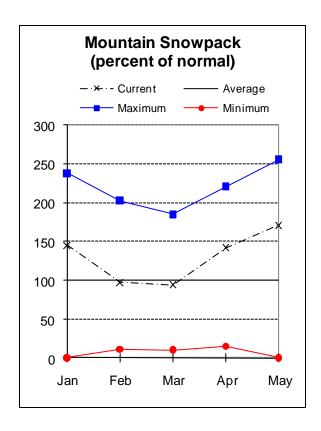
Twentymile Creek

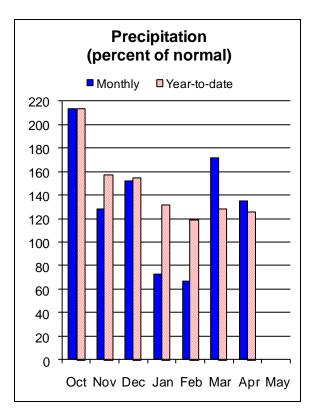
237

260

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.







Water Supply Outlook

Following an extremely dry January and February, a series of cold wet storms in March and April delivered well above average precipitation to the Harney basin. April precipitation was 135 of average. Since the beginning of the water year, precipitation in the Harney basin has been 126 of average.

The wet and cold April has delayed snowpack melt out in the Harney basin. The May 1 snowpack as measured at 9 SNOTEL sites was 171 percent of average.

Since the April Outlook Report, summer streamflow forecasts have increased notably at all forecast points in the basin. The May through September streamflow forecasts range from 152 percent of average for the Donner und Blitzen River near Frenchglen to 219 percent of average for the Silvies River near Burns. Elsewhere in the basin, Trout Creek near Denio is forecast to be 201 percent of average for the same period.

HARNEY BASIN Streamflow Forecasts - May 1, 2011

		Streamflow	w Forecas	ts - Ma	y 1, 2011	_				
		İ				onditions				
Forecast Point	Forecast Period	======= 90% (1000AF)	70% (1000AF	1	5	Exceeding * 50% (% AVG.)	30)응	====== 10% (1000AF)	30-Yr Avg. (1000AF)
Donner Und Blitzen R nr Frenchglen	MAY-JUL MAY-SEP	55 63	68 76	 	76 85	152 152	- 	84 94	97 107	50 56
Silvies R nr Burns	MAY-JUL MAY-SEP	79 84	96 102		108 114	220 219	•	.20 .26	137 144	49 52
Trout Ck nr Denio	MAY-JUL MAY-SEP	11.7 12.9	13.4 14.6		14.5 15.7	201 201	•	5.6	17.3 18.5	7.2 7.8
HARNE Reservoir Storage (100	Y BASIN O AF) - End	of April			======= 	Watershed		BASIN		2011
Reservoir	Usable Capacity	*** Usabi This Year	le Storage Last Year	e *** Avg	 Water 	shed	Dā	Number of ata Sit	==== es Last	Year as % of Yr Average
					Donne	er und Blit		2	145	168
					Silve	er Creek (H	arney Co.)	2	187	207
					Silvi	es River		5	273	209
					Trout	Creek		2	162	167

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) The value is natural volume actual volume may be affected by upstream water management.

Recession Flow Forecasts

Recession flow forecasts are presented below for key streamflow sites where reliable daily streamflow data are available. The recession flow forecasts use exceedance probabilities in a format similar to the standard water supply forecasts presented in this document. Each forecast provides a range of possible outcomes representing the uncertainty of forecasting models.

The types of forecasts in the table below are:

- 1) Threshold flow -- Date that the daily streamflow rate falls below the given threshold flow
- 2) Peak flow -- Maximum daily flow
- 3) Date of peak flow -- Date of occurrence of maximum daily flow
- 4) Average daily flow on a given date

OWYHEE AND MALHEUR BASINS									
FORECAST POINT	FORECAST FORECAST VALUE LONG-TERM THRESHOLD CHANCE OF EXCEEDING AVERAGE VALU								
		90%	50%	10%					
Owyhee R nr Rome	2000 cfs	May 23	Jun 16	Jul 10	May 06				
Owyhee R nr Rome	1000 cfs	Jun 08 Jul 06 Aug 02 May 18							
Owyhee R nr Rome	500 cfs	Jun 30 Jul 25 Aug 17 Jun 02							

UPPER JOHN DAY BASIN									
FORECAST POINT	FORECAST THRESHOLD								
		90%	50%	10%					
John Day R at Service Creek	Average Daily Flow on Aug. 1st	310	495	680	271				

UPPER DESCHUTES AND CROOKED BASINS									
FORECAST POINT	FORECAST THRESHOLD		ORECAST VAL HANCE OF EXC	~ —	LONG-TERM AVERAGE VALUE				
		90%	50%	10%					
Crane Prairie Inflow*	Date of Peak	May 23	Jun 06	Jun 20	May 25				
Crane Prairie Inflow	Peak Flow	290	410	530	403				
Crane Prairie Inflow	Average Daily Flow on Oct. 1st	250	285	320	269				
Prineville Reservoir Inflow	113 cfs	May 31	Jun 20	Jul 10	June 03				
Prineville Reservoir Inflow	75 cfs	Jun 06	Jun 26	Jul 16	June 11				
Prineville Reservoir Inflow	50 cfs	Jun 11	Jun 11 Jul 02 Jul 23 J						
Whychus Creek nr Sisters	100 cfs	Aug 03	Aug 26	Sep 18	August 16				

ROGUE AND UMPQUA BASINS									
FORECAST POINT	FORECAST THRESHOLD	_	DRECAST VAL HANCE OF EXC	LONG-TERM AVERAGE VALUE					
		90%	50%						
South Umpqua R nr Brockway *	90 cfs	Aug 12	Aug 29	Sep 16	August 08				
Couth I Impaus Dat Tiller	140 cfs	hil 40	lul 20	Aug 17	luly 44				
South Umpqua R at Tiller South Umpqua R at Tiller	90 cfs	Jul 10 Aug 02	Jul 28 Aug 18	Aug 17 Sep 06	July 11 August 01				
South Umpqua R at Tiller	60 cfs	Aug 22	Sep 15	Oct 11	August 28				

^{*}Dates are based on streamflow data adjusted for releases from Galesville Reservoir to reflect natural flow conditions and do not match observed gage data. There is approximately 20% chance in any given year that the flow will not recede below 90 cfs; the dates given here are for the event that the flow does recede below 90 cfs.

LAKE COUNTY AND GOOSE LAKE BASINS								
FORECAST POINT	FORECAST THRESHOLD		RECAST VAL IANCE OF EXC	LONG-TERM AVERAGE VALUE				
		90%	50%					
Deep Ck ab Adel	100 cfs	Jun 20	Jul 05	Jul 18	June 17			
Honey Ck nr Plush	100 cfs	May 28	Jun 22	Jul 17	May 16			
Honey Ck nr Plush	50 cfs	Jun 19	Jul 12	Aug 02	June 04			
Twentymile Ck nr Adel	50 cfs	May 26	Jun 21	Jul 17	May 30			
Twentymile Ck nr Adel	10 cfs	Jul 05	Jul 24	Aug 12	July 20			

HARNEY BASIN									
FORECAST POINT	FORECAST THRESHOLD	F(Ch	LONG-TERM AVERAGE VALUE						
		90%	50%	10%					
Silvies R nr Burns	400 cfs	May 25	Jun 10	Jun 26	May 21				
	200 cfs	Jun 10	Jul 01	Jul 23	June 02				
	100 cfs	Jul 01	Jul 23	Aug 12	June 13				
	50 cfs	Jul 28	Aug 18	Sep 11	July 03				
Donner Und Blitzen R nr Frenchglen	200 cfs	Jun 25	Jul 10	Jul 23	June 20				
Donner Und Blitzen R nr Frenchglen	100 cfs	Jul 15	Jul 30	Aug 12	July 09				

Summary of Snow Course Data

May 2011

AMENGID LAKE SNOTEL 7400	SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
ANNEROID LAKE SNOTEL 7400 5/01/11 85 27.4 20.6 26.2 ANTHONN LAKE (REV) 7130 4/29/11 93 34.2 18.6 ARTHONN LAKE (REV) 7130 4/29/11 93 34.2 18.6 BEAVER DAM CREEK 5100 5/01/11 60 20.6 10.8 15.0 BEAVER DAM CREEK 5100 5/02/11 31 13.9 2.4 4.1 BEAVER RES. SNOTEL 5150 5/01/11 28 13.9 .5 1.4 BIG RED MIN SNOTEL 5150 5/01/11 91 33.8 29.6 26.4 BIGGLOW CAMP SNOTEL 5130 5/01/11 91 39.8 29.6 26.4 BIGGLOW CAMP SNOTEL 5130 5/01/11 103 46.5 16.2 23.3 BILLE CK DVD SNOTEL 3650 5/01/11 103 46.5 16.2 23.3 BILLE CK DVD SNOTEL 3650 5/01/11 103 46.5 16.2 23.3 BOUNNE SNOTEL 5870 5/01/11 94 38.4 33.8 31.5 CALIBRAN ALT 6500 5/01/11 94 38.4 33.8 31.5 CALIBRAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBRAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBRAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBRAN ALT 6500 5/01/11 10 5 4.5 2.5 .0 .7 CALIBRAN ALT SNOTEL 4530 5/01/11 15 2.5 .0 .7 CALIBRAN ALT SNOTEL 4530 5/01/11 15 2.5 .0 .7 CALIBRAN ALT SNOTEL 4500 5/01/11 15 2.5 .0 .7 CALIBRAN ALT SNOTEL 4500 5/01/11 15 2.5 .0 .7 CALIBRAN ALT SNOTEL 4500 5/01/11 15 2.5 .0 .7 CALIBRAN ALT SNOTEL 4500 5/01/11 15 2.5 .0 .7 CALIBRAN ALT SNOTEL 4500 5/01/11 15 2.5 .0 .7 CALIBRAN ALT SNOTEL 500 5/01/11 15 2.5 .0 .7 CALIBRAN ALT SNOTEL 4500 5/01/11 15 2.5 .0 .7 CALIBRAN ALT SNOTEL 4500 5/01/11 15 2.5 .0 .0 .7 CALIBRAN ALT SNOTEL 4500 5/01/11 15 2.5 .0 .0 .7 CALIBRAN FLAT SNOTEL 5840 5/01/11 15 2.5 .0 .0 .7 CALIBRAN FLAT SNOTEL 5840 5/01/11 15 2.5 .0 .0 .7 CALIBRAN FLAT SNOTEL 5840 5/01/11 15 2.5 .0 .0 .7 CALIBRAN FLAT SNOTEL 5840 5/01/11 10 .0 .0 .1 .1 .4 .3 .3 CALIBRAN FLAT SNOTEL 5850 5/01/11 10 .0 .0 .1 .1 .4 .3 .3 CALIBRAN FLAT SNOTEL 5850 5/01/11 10 .0 .0 .1 .1 .4 .3 .3 .5 .6 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	Oregon			DEFIII	CONTENT	IBAK	71 00
ANNIE SPRING SNOTEL ANTHONY LAKE (REV) ANTHONY LAKE (REV) ANTHONY LAKE (REV) ANTHONY LAKE (REV) ANTHONY LAKE (REV) ANTHONY LAKE (REV) ANTHONY LAKE (REV) BEAVER DAM CREEK SIOO 5/01/11 60 20.6 10.8 15.0 BEAVER DAM CREEK SIOO 5/01/11 91 33.9 2.4 4.1 BRAWER RES. SNOTEL 5150 5/01/11 91 39.8 29.6 26.4 BIGGOW CAMP SNOTEL 5150 5/01/11 91 39.8 29.6 26.4 BIGGOW CAMP SNOTEL 5280 5/01/11 40 20.4 6.6 6.5 BILLIE CK DVD SNOTEL 5280 5/01/11 53 24.4 14.0 10.2 BLAZED ALDER SNOTEL 5870 5/01/11 38 16.4 4.9 8.3 BLUE MIN SPGS SNOTEL 5870 5/01/11 38 16.4 4.9 8.3 BLUE MIN SPGS SNOTEL 5850 5/01/11 44 18.5 4.4 9.1 BOMMAN SPRINGS SNOTEL 4550 5/01/11 99 4.4 0.0 8.8 CALIEBAN ALT 6500 5/01/11 108 42.1 27.0 27.9 CLEMENTA ALK SNOTEL 5100 5/01/11 108 42.1 27.0 27.9 CLEARLAN ALT 6500 5/01/11 108 42.1 27.0 27.9 CLEARLAN S. SNOTEL 5500 5/01/11 52.5 0.0 7.7 CLACKAMAS LK. SNOTEL 3810 5/01/11 1 34 12.4 0.0 5.8 COLD SPRINGS SNOTEL 3840 5/01/11 1 29 7.1 0.0 2.3 CLEAR LAKE SNOTEL 3800 5/01/11 1 19 7.1 0.0 2.3 CLOUNTY LINE SNOTEL 5800 5/01/11 1 10 0.0 1.1 4.4 CRAZYMAN FLAT SNOTEL 4830 5/01/11 1 0.0 0.1 1.4 CRAZYMAN FLAT SNOTEL 5800 5/01/11 1 1 17.3 1.4 3.9 DEDADNOOL JUNCTION 4600 5/01/11 1 1 17.3 1.4 3.9 DEDADNOOL JUNCTION 4600 5/01/11 1 1 17.3 1.4 3.9 DEDADNOOL JUNCTION 4600 5/01/11 1 1 1 17.3 1.4 3.9 DEDADNOOL JUNCTION 4600 5/01/11 1 1 1 17.3 1.4 3.9 DEDADNOOL JUNCTION 4600 5/01/11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		7400	5/01/11	8.5	27.4	20.6	26.2
ANTHONY LAKE (REV) APBUCKLE MTN SNOTEL 5770 5/01/11 60 20.6 10.8 15.0 BEAVER DAM CREEK 5100 5/02/11 31 13.9 2.4 4.1 BEAVER RES. SNOTEL 5150 5/01/11 91 13.9 2.4 4.1 BEGAVER RES. SNOTEL 5150 5/01/11 91 39.8 29.6 26.4 BIGGEOW CAMP SNOTEL 5130 5/01/11 91 39.8 29.6 26.4 BIGGEOW CAMP SNOTEL 5130 5/01/11 40 20.4 6.6 6.5 BILLIE CK DUD SNOTEL 5280 5/01/11 103 46.5 16.2 23.3 BIUGE MTN SPGS SNOTEL 5870 5/01/11 103 46.5 16.2 23.3 BUGE MTN SPGS SNOTEL 5870 5/01/11 31 16.4 4.9 9.1 BOWRMS SPRNOS SNOTEL 5850 5/01/11 44 18.5 4.4 9.1 BOWRMS SPRNOS SNOTEL 5850 5/01/11 44 18.5 4.4 9.1 CARCADO SUM SNOTEL 5100 5/02/11 94 38.4 33.8 31.5 CARCADO SUM SNOTEL 5100 5/02/11 94 38.4 33.8 31.5 CASCADO SUM SNOTEL 5100 5/02/11 94 38.4 33.8 31.5 CASCADO SUM SNOTEL 5100 5/01/11 5 2.5 .0 7.7 CLACKAMAS IK. SNOTEL 3800 5/01/11 5 2.5 .0 7.7 CLACKAMAS IK. SNOTEL 3810 5/01/11 13 41.2.4 .0 5.8 COUNTY LINE SNOTEL 5840 5/01/11 39 7.1 .0 2.3 COUNTY LINE SNOTEL 5840 5/01/11 33 39.7 22.0 21.3 COUNTY LINE SNOTEL 5840 5/01/11 44 20.2 8.2 6.3 COUNTY LINE SNOTEL 5890 5/01/11 41 17.3 1.4 3.9 DEADWOOD JUNCTION 4600 5/02/11 5 2.2 0 8.2 DIAMOND LAKE SNOTEL 5850 5/01/11 41 17.3 1.4 3.9 DEADWOOD JUNCTION 4600 5/02/11 5 2.2 0 8.8 DIAMOND LAKE SNOTEL 5850 5/01/11 45 23.6 3.6 6.3 ELIBERTSON SNOTEL 5850 5/01/11 45 23.6 3.6 6.3 ELIBERTSON SNOTEL 5800 5/01/11 45 23.6 3.6 6.3 ELIBERTSON SNOTEL 5800 5/01/11 19 14.9 .0 3.4 EMIGRANT SPGS SNOTEL 5800 5/01/11 79 30.9 21.6 23.5 GERBER RES SNOTEL 5800 5/01/11 79 30.9 21.6 23.5 FISH LK. SNOTEL 5800 5/01/11 79 30.9 21.6 23.5 FISH LK. SNOTEL 5800 5/01/11 79 30.9 21.6 23.5 FISH CREEK SNOTEL 5800 5/01/11 79 30.9 21.6 23.5 FISH CREEK SNOTEL 5800 5/01/11 79 30.9 21.6 23.5 FISH CREEK SNOTEL 5800 5/01/11 79 30.9 21.6 23.5 FISH CREEK SNOTEL 5800 5/01/11 79 30.9 21.6 23.5 FISH CREEK SNOTEL 5800 5/01/11 79 30.9 21.6 23.5 FISH CREEK SNOTEL 5800 5/01/11 79 30.9 21.6 23.5 FISH CREEK SNOTEL 5800 5/01/11 79 30.9 21.6 23.5 FISH CREEK SNOTEL 5800 5/01/11 79 30.9 21.6 23.5 FISH SNOTEL 5800 5/01/11 79 30.9 30.0 9.9 FISH CREEK SNOTEL 5800 5/01/11 79 30							
ARBUCKLE MTN SNOTEL 5770 5/01/11 60 20.6 10.8 15.0 BBAVER DAM CREEK 5100 5/02/11 31 13.9 2.4 4.1 BBAVER RES. SNOTEL 5150 5/01/11 28 13.9 5. 1.4 BIG RED MTN SNOTEL 6050 5/01/11 28 13.9 5. 1.4 BIG RED MTN SNOTEL 5130 5/01/11 40 20.4 6.6 6.5 BIGELOW CAMP SNOTEL 5280 5/01/11 103 46.5 16.2 23.3 BILLIE CK DVD SNOTEL 5280 5/01/11 103 46.5 16.2 23.3 BILLIE CK DVD SNOTEL 5870 5/01/11 103 46.5 16.2 23.3 BIUDE MTN SPCS SNOTEL 5870 5/01/11 103 46.5 16.2 23.3 BIUDE MTN SPCS SNOTEL 5870 5/01/11 9 4.4 0.0 8. 6 500 5/01/11 9 4.4 0.0 8. 6 500 5/01/11 9 4.4 0.0 8. 6 500 5/01/11 9 4.4 0.0 8. 6 500 5/01/11 9 4.4 0.0 8. 6 500 5/01/11 9 4.4 0.0 8. 6 500 5/01/11 9 4.4 0.0 8. 6 500 5/01/11 9 4.4 0.0 8. 6 500 5/01/11 9 4.4 0.0 8. 6 500 5/01/11 9 4.4 0.0 8. 6 500 5/01/11 9 5.2 5 0.0 7. 6 500 5/01/11 108 42.1 27.0 27.9 5 5 500 5/01/11 108 42.1 27.0 27.9 5 5 500 5/01/11 108 42.1 27.0 27.9 5 5 5 500 5/01/11 108 42.1 27.0 27.9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		7130					
BEAVER RES. SNOTEL 5150 5/01/11 28 13.9 .5 1.4 BIG RED MYNN SNOTEL 6050 5/01/11 40 20.4 6.6 6.5 BIGELOW CAMP SNOTEL 5130 5/01/11 40 20.4 6.6 6.5 BILLIE CK DVD SNOTEL 5280 5/01/11 33 24.4 14.0 10.2 BIAZZDA ALDER SNOTEL 5550 5/01/11 33 46.5 16.2 23.3 BIUJE MYN SPGS SNOTEL 5870 5/01/11 38 16.4 4.9 8.3 BOURNE SNOTEL 5850 5/01/11 38 16.4 4.9 9.1 BOURNE SNOTEL 5850 5/01/11 9 4.4 0.0 8. BOURNE SNOTEL 5850 5/01/11 9 4.4 0.0 8. CALIBAN ALT 6500 5/01/11 9 4.4 38.4 33.8 31.5 CASCADE SUM. SNOTEL 4530 5/01/11 9 4.4 38.4 33.8 31.5 CASCADE SUM. SNOTEL 4850 5/01/11 108 42.1 27.0 27.9 CHEMULT ALT SNOTEL 4850 5/01/11 19 7.1 0.0 2.3 CLEAR LAKE SNOTEL 3400 5/01/11 19 7.1 0.0 2.3 CLEAR LAKE SNOTEL 3400 5/01/11 19 7.1 0.0 2.3 COLD SPRINGS SNOTEL 4830 5/01/11 19 7.1 0.0 2.3 COLD SPRINGS SNOTEL 4830 5/01/11 0 0.1 4.4 CRAZYMAN FLAT SNOTEL 4830 5/01/11 0 0.1 4.4 CRAZYMAN FLAT SNOTEL 4830 5/01/11 10 0.0 1.1 4.4 DEADMOOD JUNCTION 4600 5/01/11 44 20.2 8.2 6.3 DALY LAKE SNOTEL 5680 5/01/11 44 17.3 1.4 3.9 DEADMOOD JUNCTION 4600 5/01/11 44 17.3 1.4 3.9 DEAR SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5280 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 500 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 500 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 500 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 500 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 500 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 500 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 500 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 500 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 500 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 500 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 500 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 500 5/01/11 40 15.3 2.5 32.4 2.8 ELIERTSON SNOTEL 500 5/01/11 10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	ARBUCKLE MTN SNOTE						15.0
BIG RDD MITN SNOTEL 6050 5/01/11 91 39.8 29.6 6.6 5 BILLIE CK DVD SNOTEL 5130 5/01/11 40 20.4 6.6 6.5 BILLIE CK DVD SNOTEL 5280 5/01/11 53 24.4 14.0 10.2 BLAZED ALDER SNOTEL 5870 5/01/11 38 16.4 4.9 8.3 BURL MIN SPEGS SNOTEL 5870 5/01/11 38 16.4 4.9 8.3 BURL MIN SPEGS SNOTEL 5870 5/01/11 94 4.4 0.0 .8 CALIBAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBAN ALT 6500 5/02/11 97 18 42.1 27.0 27.9 CHEMULT ALT SNOTEL 4850 5/01/11 15 2.5 .0 7.7 CLACKAMAS LK. SNOTEL 4850 5/01/11 19 7.1 .0 2.3 CLERA LAKE SNOTEL 3810 5/01/11 19 7.1 .0 2.3 CLERA LAKE SNOTEL 3810 5/01/11 34 12.4 .0 5.8 COLD SPRINGS SNOTEL 4830 5/01/11 34 12.4 .0 5.8 COLD SPRINGS SNOTEL 6180 5/01/11 42 20.2 8.2 6.3 DALY LAKE SNOTEL 6180 5/01/11 40 .0 .1 .4 CRAZYMAN FLAT SNOTEL 6180 5/01/11 41 17.3 1.4 3.9 DEADWOOD JUNCTION 4600 5/02/11 5 2.2 .0 8.2 6.5 DIAMOND LAKE SNOTEL 5860 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 6.5 DALY LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 6.5 DALY LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 6.5 DALY LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 6.5 DALY LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 6.5 DALY LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 6.5 DALY LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 6.5 DALY LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 6.5 DALY LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 3.6 6.5 DALY LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 3.6 6.5 DALY LAKE SNOTEL 5800 5/01/11 40 15.3 2.5 3.6 6.5 DALY LAKE SNOTEL 5800 5/01/11 70 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	BEAVER DAM CREEK	5100	5/02/11	31	13.9	2.4	4.1
BILLIE CK DVD SNOTEL 5280 5/01/11 53 24.4 14.0 10.2 ELAZED ALDER SNOTEL 3650 5/01/11 103 46.5 16.2 23.3 BLUE MIN SPGS SNOTEL 5870 5/01/11 38 16.4 4.9 8.3 BOURNE SNOTEL 5850 5/01/11 44 18.5 4.4 9.1 BOURNE SNOTEL 5850 5/01/11 94 4.4 .0 .8 CALIBAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBAN ALT 6500 5/02/11 96 38.4 33.8 31.5 CALIBAN ALT SNOTEL 4850 5/01/11 108 42.1 27.0 27.9 CHEMULT ALT SNOTEL 4850 5/01/11 10 7.1 .0 2.3 CLEAR LAKE SNOTEL 3400 5/01/11 19 7.1 .0 2.3 CLEAR LAKE SNOTEL 3400 5/01/11 34 12.4 .0 5.8 COLD SPRINGS SNOTEL 5940 5/01/11 83 39.7 22.0 21.3 CLIBAN ALT 64830 5/01/11 44 20.2 8.2 6.3 DALY LAKE SNOTEL 6180 5/01/11 44 20.2 8.2 6.3 DALY LAKE SNOTEL 6180 5/01/11 44 20.2 8.2 6.3 DALY LAKE SNOTEL 5800 5/01/11 44 20.2 8.2 6.3 ELERTSON SNOTEL 5800 5/01/11 45 23.6 3.6 6.3 ELERTSON SNOTEL 5800 5/01/11 45 23.6 3.6 6.3 ELERTSON SNOTEL 5280 5/01/11 45 23.6 3.6 6.3 ELERTSON SNOTEL 5280 5/01/11 45 23.6 3.6 6.3 ELERTSON SNOTEL 5280 5/01/11 10 0.0 .0 .1 FISH CREEK SNOTEL 5800 5/01/11 10 0.0 .0 .1 FISH CREEK SNOTEL 5800 5/01/11 10 0.0 .0 .0 .1 FISH CREEK SNOTEL 5800 5/01/11 10 0.0 .0 .0 .1 FISH CREEK SNOTEL 5800 5/01/11 10 0.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	BEAVER RES. SNOTE	5150	5/01/11	28	13.9	.5	1.4
BILLIE CK DVD SNOTEL 5280 5/01/11 53 24.4 14.0 10.2 ELAZED ALDER SNOTEL 3650 5/01/11 103 46.5 16.2 23.3 BLUE MIN SPGS SNOTEL 5870 5/01/11 38 16.4 4.9 8.3 BOURNE SNOTEL 5850 5/01/11 44 18.5 4.4 9.1 BOURNE SNOTEL 5850 5/01/11 94 4.4 .0 .8 CALIBAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CALIBAN ALT 6500 5/02/11 96 38.4 33.8 31.5 CALIBAN ALT SNOTEL 4850 5/01/11 108 42.1 27.0 27.9 CHEMULT ALT SNOTEL 4850 5/01/11 10 7.1 .0 2.3 CLEAR LAKE SNOTEL 3400 5/01/11 19 7.1 .0 2.3 CLEAR LAKE SNOTEL 3400 5/01/11 34 12.4 .0 5.8 COLD SPRINGS SNOTEL 5940 5/01/11 83 39.7 22.0 21.3 CLIBAN ALT 64830 5/01/11 44 20.2 8.2 6.3 DALY LAKE SNOTEL 6180 5/01/11 44 20.2 8.2 6.3 DALY LAKE SNOTEL 6180 5/01/11 44 20.2 8.2 6.3 DALY LAKE SNOTEL 5800 5/01/11 44 20.2 8.2 6.3 ELERTSON SNOTEL 5800 5/01/11 45 23.6 3.6 6.3 ELERTSON SNOTEL 5800 5/01/11 45 23.6 3.6 6.3 ELERTSON SNOTEL 5280 5/01/11 45 23.6 3.6 6.3 ELERTSON SNOTEL 5280 5/01/11 45 23.6 3.6 6.3 ELERTSON SNOTEL 5280 5/01/11 10 0.0 .0 .1 FISH CREEK SNOTEL 5800 5/01/11 10 0.0 .0 .1 FISH CREEK SNOTEL 5800 5/01/11 10 0.0 .0 .0 .1 FISH CREEK SNOTEL 5800 5/01/11 10 0.0 .0 .0 .1 FISH CREEK SNOTEL 5800 5/01/11 10 0.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	BIG RED MTN SNOTE	6050	5/01/11	91	39.8	29.6	26.4
BLAZED ALDER SNOTEL 3650 5/01/11 30 46.5 16.2 23.3 BUENE MTN SPGS SNOTEL 5870 5/01/11 38 16.4 4.9 9.1 BOURNE SNOTEL 5850 5/01/11 44 18.5 4.4 9.1 BOWMAN SPRINGS SNOTEL 5850 5/01/11 94 4.4 18.5 4.4 9.1 BOWMAN SPRINGS SNOTEL 5500 5/01/11 94 38.4 33.8 31.5 CASCADE SUM. SNOTEL 5100 5/01/11 108 42.1 27.0 27.9 CHEMULT ALT SNOTEL 4850 5/01/11 5 2.5 .0 .7 CLACKAMAS LK. SNOTEL 3400 5/01/11 19 7.1 .0 2.3 CLEAR LARE SNOTEL 3810 5/01/11 34 12.4 .0 5.8 CLEAR LARE SNOTEL 5940 5/01/11 34 12.4 .0 5.8 CLEAR LARE SNOTEL 5800 5/01/11 34 12.4 .0 5.8 CLEAR LARE SNOTEL 5800 5/01/11 30 12.4 .0 5.8 CLEAR LARE SNOTEL 5800 5/01/11 41 17.3 1.4 3.9 DEADWOOD JUNCTION 4600 5/02/11 5 2.2 .0 .0 .8 DEAR SNOTEL 5850 5/01/11 41 17.3 1.4 3.9 DEADWOOD JUNCTION 4600 5/02/11 5 2.2 .0 .8 ELERGSON SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LARE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LARE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LARE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LARE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LARE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LARE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LARE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LARE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LARE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LARE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LARE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LARE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LARE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LARE SNOTEL 5850 5/01/11 40 14.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	BIGELOW CAMP SNOTE	5130		- 0			6.5
BOURNE SNOTEL 5870 5/01/11 38 16.4 4.9 8.3 BOURNE SNOTEL 5850 5/01/11 44 18.5 4.4 9.1 BOWMAN SPRIGS SNOTEL 4530 5/01/11 99 4.4 10 8.8 CALIBAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CASCADE SUM. SNOTEL 5100 5/01/11 108 42.1 27.0 27.9 CHEMULT ALT SNOTEL 4850 5/01/11 108 42.1 27.0 27.9 CLEMULT ALT SNOTEL 4850 5/01/11 19 7.1 0 2.3 CLEAR LAKE SNOTEL 3810 5/01/11 34 12.4 0 5.8 COLD SPRINGS SNOTEL 5940 5/01/11 34 12.4 0 5.8 COLD SPRINGS SNOTEL 4830 5/01/11 34 12.4 0 5.8 COLD SPRINGS SNOTEL 6180 5/01/11 40 0.0 1.1 4 CRAZYMAN FLAT SNOTEL 6180 5/01/11 41 17.3 1.4 3.9 DEADWOOD JUNCTION 4600 5/02/11 5 2.2 0 8.2 DEADWOOD JUNCTION 4600 5/02/11 5 2.2 0 8.8 DIAMOND LAKE SNOTEL 5510 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5580 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5580 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND SNOTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND SNOTEL 5850 5/01/11 70 0.0 0.0 DIAMOND SNOTEL 5850 5/01/11 70 0.0 0.0 DIAMOND SNOTEL 5850 5/01/11 70 0.0 0.0 DIAMOND SNOTEL 5850 5/01/11 70 0.0 0.0 DIAMOND SNOTEL 5850 5/01/11 70 0.0 0.0 DIAMOND SNOTEL 5850 5/01/11 70 0.0 0.0 DIAMOND SNOTEL 5850 5/01/11 70 0.0 0.0 DIAMOND SNOTEL 5850 5/01/11 70 0.0 0.0 DIAMOND SNOTEL 5850 5/01/11 70 0.0 0.0 DIAMOND SNOTEL 5850 5/01/11 70 0.0 0.0 DIAMOND SNOTEL 5850 5/01/11 10 0.0 0.0 DIAMOND SNOTEL 5850 5/01/11 10 0.0 0.0 DIAMOND SNO				53	24.4		
BOUNE SYSTEL 5870 5/01/11 38 16.4 4.9 8.3 BOUNES SYSTEL 5850 5/01/11 44 18.5 4.4 9.1 BOWMAN SPRNCS SYSTEL 4530 5/01/11 94 38.4 33.8 31.5 CALLEAN ALT 6500 5/02/11 94 38.4 33.8 31.5 CASCADE SUM. SYSTEL 5100 5/01/11 108 42.1 27.0 27.9 CHEMULT ALT SYSTEL 4850 5/01/11 5 2.5 .0 .7 CLACKAMAS LK. SYSTEL 3400 5/01/11 19 7.1 .0 2.3 CLEAR LAKE SYSTEL 3810 5/01/11 34 12.4 .0 5.8 COLD SPRINGS SYSTEL 5940 5/01/11 0 .0 .1 .4 CRAZYMAN FLAT SYSTEL 4830 5/01/11 0 .0 .1 .4 CRAZYMAN FLAT SYSTEL 6180 5/01/11 44 20.2 8.2 6.3 DALY LAKE SYSTEL 3690 5/01/11 44 20.2 8.2 6.3 DALY LAKE SYSTEL 3690 5/01/11 41 17.3 1.4 3.9 DEADWOOD JUNCTION 4600 5/02/11 5 2.2 .0 .8 DEAR SYSTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SYSTEL 5850 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SYSTEL 5580 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SYSTEL 5580 5/01/11 40 15.3 2.5 6.5 DIAMOND LAKE SYSTEL 5580 5/01/11 40 15.3 2.5 6.5 FISH LK. SYSTEL 7660 5/01/11 19 14.9 0 3.4 EMIGRANT SPGS SYSTEL 3800 5/01/11 19 14.9 0 3.4 EMIGRANT SPGS SYSTEL 3800 5/01/11 19 14.9 0 3.4 EMIGRANT SPGS SYSTEL 3800 5/01/11 10 0 0 0 1 FISH CREEK SYSTEL 7660 5/01/11 33 13.1 3.6 1.4 FOURMILE LAKE SYSTEL 5970 5/01/11 73 30.9 21.6 23.5 GERBER RES SYSTEL 4890 5/01/11 73 30.9 21.6 23.5 GERBER RES SYSTEL 4890 5/01/11 73 30.9 21.6 23.5 GERBER RES SYSTEL 4890 5/01/11 74 29.6 9.3 15.9 HOGG PASS SYSTEL 4890 5/01/11 74 29.6 9.3 15.9 HOGG PASS SYSTEL 4890 5/01/11 77 29.4 20.9 34.3 HOLLAIND MOWS SYSTEL 4930 5/01/11 77 29.4 20.9 34.3 HOLLAIND MOWS SYSTEL 4930 5/01/11 79 30.4 20.9 34.3 HOLLAIND MOWS SYSTEL 4930 5/01/11 79 30.4 20.9 34.3 HOLLAIND MOWS SYSTEL 4930 5/01/11 79 30.4 20.9 34.3 HOHARD PRAIRIE 4500 5/01/11 79 30.4 20.9 34.3 HOHARD PRAIRIE 4500 5/01/11 79 30.4 20.9 34.3 HOHARD PRAIRIE 4500 5/01/11 79 30.4 20.9 3.5 KING MTN #1 4500 5/01/11 79 30.4 20.9 3.5 KING MTN #2 SYSTEL 4970 5/01/11 71 29.1 0.0 0.0 MCM CRESCENT SYSTEL 570 5/01/11 10 0.0 0.0 0.0 MCM CRESCENT SYSTEL 570 5/01/11 10 0.0 0.0 0.0 MCM CRESCENT SYSTEL 570 5/01/11 10 0.0 0.0 0.0 MCM CRESCENT SYSTEL 570 5/01/11 10 0.0 0.0 0.0 0.0 MCM CRESC				103	46.5	16.2	
BOMMAN SPRNGS SNOTEL		5870		38	16.4	4.9	
CALIBAN ALT CASCADE SUM. SNOTEL 5100 5/01/11 108 42.1 27.0 27.9 CHEMULT ALT SNOTEL 4850 5/01/11 5 2.5 .0 .7 CLACKAMAS LK. SNOTEL 3400 5/01/11 19 7.1 .0 2.3 CLEAR LAKE SNOTEL 3810 5/01/11 34 12.4 .0 5.8 COLD SPRINGS SNOTEL 5940 5/01/11 83 39.7 22.0 21.3 COUNTY LINE SNOTEL 4830 5/01/11 0 .0 .1 .4 CRAZYMAN FLAT SNOTEL 6180 5/01/11 44 20.2 8.2 6.3 DALY LAKE SNOTEL 3690 5/01/11 41 17.3 1.4 3.9 DEADWOOD JUNCTION 4600 5/02/11 5 2.2 .0 8.8 DEAR SNOTEL 5800 5/01/11 45 17.3 1.4 3.9 DEARWOOD JUNCTION 4600 5/01/11 45 23.6 3.6 6.5 DIAMOND LAKE SNOTEL 5280 5/01/11 45 23.6 3.6 6.3 BILERTSON SNOTEL 5280 5/01/11 45 23.6 3.6 6.3 BILERTSON SNOTEL 5280 5/01/11 49 14.9 .0 3.4 EMIGRANT SPGS SNOTEL 3800 5/01/11 19 14.9 .0 3.4 EMIGRANT SPGS SNOTEL 3800 5/01/11 109 52.5 32.4 28.6 FISH LK. SNOTEL 4660 5/01/11 109 52.5 32.4 28.6 FISH LK. SNOTEL 4660 5/01/11 33 13.1 3.6 1.4 FOURMILE LAKE SNOTEL 5970 5/01/11 73 30.9 21.6 23.5 GERBER RES SNOTEL 4890 5/01/11 0 .0 .0 .0 GOLD CENTER SNOTEL 3310 5/01/11 0 .0 .0 .0 GOLD CENTER SNOTEL 3310 5/01/11 73 30.9 21.6 23.5 GERBENCINT SNOTEL 4920 5/01/11 73 24.2 10.8 17.0 HOGG PASS SNOTEL 4930 5/01/11 74 29.6 9.3 15.9 HOGG PASS SNOTEL 4930 5/01/11 79 30.4 20.9 34.3 HOLLAND MDWS SNOTEL 5540 5/01/11 79 30.4 20.9 34.3 HOLLAND MDWS SNOTEL 5540 5/01/11 79 30.4 20.9 34.3 HOLLAND MDWS SNOTEL 5540 5/01/11 79 30.4 20.9 34.3 HOLLAND MDWS SNOTEL 5540 5/01/11 79 30.4 20.9 34.3 HOLLAND MDWS SNOTEL 5540 5/01/11 79 30.4 20.9 34.3 HOLLAND MDWS SNOTEL 5540 5/01/11 79 30.4 20.9 34.3 HOLLAND MDWS SNOTEL 5540 5/01/11 10 4.1 0.0 .9 KING MTN #3 3650 4/28/11 2 1.0 0 .9 KING MTN #3 3650 4/28/11 2 1.0 0 .9 KING MTN #3 3650 4/28/11 2 1.0 0 .0 .0 MCRENZIE SNOTEL 5700 5/01/11 10 4.1 0.0 .0 .0 MCRENZIE SNOTEL 5700 5/01/11 10 4.1 0.0 0 .0 MCRENZIE SNOTEL 5700 5/01/11 10 4.1 0.0 0 .0 MCRENZIE SNOTEL 5700 5/01/11 10 4.1 0.0 0 .0 MCRENZIE SNOTEL 5700 5/01/11 10 4.1 0.0 0 .0 MCRENZIE SNOTEL 5700 5/01/11 10 4.1 0.0 0 .0 MCRENZIE SNOTEL 5700 5/01/11 10 4.1 0.0 0 .0 MCRENZIE SNOTEL 5700 5/01/11 10 4.1 0.0 0 .0 MCRENZIE SNOTEL 5700 5/01/11 10							
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GERBER RES SNOTEL 4890 5/01/11 0 .0 .0 .0 .0 GOLD CENTER SNOTEL 5410 5/01/11 16 6.4 .0 1.0 GREENPOINT SNOTEL 3310 5/01/11 37 14.8 5.0 4.4 HIGH RIDGE SNOTEL 4920 5/01/11 74 29.6 9.3 15.9 HOGG PASS SNOTEL 4790 5/01/11 79 30.4 20.9 34.3 HOLLAND MDWS SNOTEL 4930 5/01/11 73 24.2 10.8 17.0 HOWARD PRAIRIE 4500 5/02/11 5 2.1 0 9 1 IRISH-TAYLOR SNOTEL 5540 5/01/11 119 44.1 32.5 38.8 JUMP OFF JOE SNOTEL 3520 5/01/11 44 17.9 0 3.5 KING MTN #1 4500 4/28/11 32 12.7 8 2.8 KING MTN #2 SNOTEL 4340 5/01/11 20 9.3 0 9 9 KING MTN #3 3650 4/28/11 2 1.0 0 0 0 0 1.0 LAKE CK R.S. SNOTEL 5240 5/01/11 10 4.1 0 1.3 LITTLE MEADOW SNOTEL 4020 5/01/11 10 4.1 0 1.3 LITTLE MEADOW SNOTEL 4020 5/01/11 21 9.1 0 2.7 MADISON BUTTE SNOTEL 4770 5/01/11 21 9.1 0 2.7 MADISON BUTTE SNOTEL 5590 5/01/11 12 9.1 0 2.7 MADISON BUTTE SNOTEL 5590 5/01/11 120 58.2 30.6 40.0 MEACHAM 4300 5/03/11 5 2.0 0 1.6 MCKENZIE SNOTEL 4770 5/01/11 120 58.2 30.6 40.0 MEACHAM 4300 5/03/11 5 2.0 0 1.6 MILLER WOODS SNOTEL 420 5/01/11 120 58.2 30.6 40.0 MEACHAM 4300 5/03/11 5 2.0 0 1.6 MILLER WOODS SNOTEL 420 5/01/11 120 58.2 30.6 40.0 MEACHAM 4300 5/03/11 5 2.0 0 1.6 MILLER WOODS SNOTEL 5760 5/01/11 174 68.2 49.8 63.9 MT HOWARD SNOTEL 5770 5/01/11 174 68.2 49.8 63.9 MT HOWARD SNOTEL 5770 5/01/11 174 68.2 49.8 63.9 MT HOWARD SNOTEL 5770 5/01/11 52 20.0 15.0 16.9 MUD RIDGE SNOTEL 4070 5/01/11 52 20.0 15.0 16.9 MUD RIDGE SNOTEL 4070 5/01/11 52 20.0 15.0 16.9 MUD RIDGE SNOTEL 4070 5/01/11 52 20.0 15.0 16.9 MUD RIDGE SNOTEL 4070 5/01/11 52 20.0 15.0 16.9 MUD RIDGE SNOTEL 4070 5/01/11 53 8.9 0 3.0 3.0 NEW DUTCHMAN #3 6320 4/27/11 153 62.7 42.1 55.4 NORTH FK RES SNOTEL 3060 5/01/11 153 62.7 42.1 55.4 NORTH FK RES SNOTEL 3060 5/01/11 153 62.7 42.1 55.4 NORTH FK RES SNOTEL 3060 5/01/11 80 35.7 11.0 6.9							
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HOWARD PRAIRIE 4500 5/02/11 5 2.1 .0 .9 IRISH-TAYLOR SNOTEL 5540 5/01/11 119 44.1 32.5 38.8 JUMP OFF JOE SNOTEL 3520 5/01/11 44 17.9 .0 3.5 KING MTN #1 4500 4/28/11 32 12.7 .8 2.8 KING MTN #2 SNOTEL 4340 5/01/11 20 9.3 .0 .9 KING MTN #3 3650 4/28/11 2 1.0 .0 .0 .0 LAKE CK R.S. SNOTEL 5240 5/01/11 10 4.1 .0 1.3 LITTLE MEADOW SNOTEL 4020 5/01/11 99 46.3 19.1 16.9 LUCKY STRIKE SNOTEL 4970 5/01/11 21 9.1 .0 2.7 MADISON BUTTE SNOTEL 5150 5/01/11 2 9.1 .0 2.7 MADISON BUTTE SNOTEL 5150 5/01/11 2 0.2 .0 .4 MARION FORKS SNOTEL 2590 5/01/11 14 6.5 .0 3.6 MCKENZIE SNOTEL 4770 5/01/11 120 58.2 30.6 40.0 MEACHAM 4300 5/03/11 5 2.0 .0 1.6 MILLER WOODS SNOTEL 420 5/01/11 86 35.1 17.8 22.3 MT ASHLAND SWBK. 6400 5/02/11 96 39.2 32.3 33.0 MT HOOD TEST SNOTEL 7910 5/01/11 174 68.2 49.8 63.9 MT HOWARD SNOTEL 7910 5/01/11 52 20.0 15.0 16.9 MUD RIDGE SNOTEL 4070 5/01/11 71 29.8 17.5 18.2 NEW CRESCENT SNOTEL 4910 5/01/11 71 29.8 17.5 18.2 NEW CRESCENT SNOTEL 4910 5/01/11 153 62.7 42.1 55.4 NORTH FK RES SNOTEL 3060 5/01/11 153 62.7 42.1 55.4			5/01/11				
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JUMP OFF JOE SNOTEL 3520 5/01/11 44 17.9 .0 3.5 KING MTN #1 4500 4/28/11 32 12.7 .8 2.8 KING MTN #2 SNOTEL 4340 5/01/11 20 9.3 .0 .9 KING MTN #3 3650 4/28/11 2 1.0 .0 .0 .0 LAKE CK R.S. SNOTEL 5240 5/01/11 10 4.1 .0 1.3 LITTLE MEADOW SNOTEL 4020 5/01/11 99 46.3 19.1 16.9 LUCKY STRIKE SNOTEL 4970 5/01/11 21 9.1 .0 2.7 MADISON BUTTE SNOTEL 5150 5/01/11 2 9.1 .0 2.7 MADISON BUTTE SNOTEL 5150 5/01/11 2 .2 .0 .4 MARION FORKS SNOTEL 2590 5/01/11 14 6.5 .0 3.6 MCKENZIE SNOTEL 4770 5/01/11 120 58.2 30.6 40.0 MEACHAM 4300 5/03/11 5 2.0 .0 1.6 MILLER WOODS SNOTEL 420 5/01/11 0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	IRISH-TAYLOR SNOTE	5540	5/01/11	119	44.1	32.5	38.8
KING MTN #2 SNOTEL 4340 5/01/11 20 9.3 .0 .9 KING MTN #3 3650 4/28/11 2 1.0 .0 .0 LAKE CK R.S. SNOTEL 5240 5/01/11 10 4.1 .0 1.3 LITTLE MEADOW SNOTEL 4020 5/01/11 99 46.3 19.1 16.9 LUCKY STRIKE SNOTEL 4970 5/01/11 21 9.1 .0 2.7 MADISON BUTTE SNOTEL 5150 5/01/11 2 .2 .0 .4 MARION FORKS SNOTEL 2590 5/01/11 14 6.5 .0 3.6 MCKENZIE SNOTEL 4770 5/01/11 120 58.2 30.6 40.0 MEACHAM 4300 5/03/11 5 2.0 .0 1.6 MILLER WOODS SNOTEL 420 5/01/11 0 .0 .0 .0 MOSS SPRINGS SNOTEL 420 5/01/11 86 35.1 17.8 22.3 MT ASHLAND SWBK. 6400 5/02/11 96 39.2 32.3 33.0 MT HOOD TEST SNOTEL 5760 5/01/11 174 68.2 49.8 63.9 MT HOWARD SNOTEL 7910 5/01/11 71 29.8 17.5 18.2 NEW CRESCENT SNOTEL 4910 5/01/11 35 8.9 .0 3.0 NEW DUTCHMAN #3 6320 4/27/11 153 62.7 42.1 55.4 NORTH FK RES SNOTEL 3060 5/01/11 80 35.7 11.0 6.9		3520	5/01/11	44	17.9	.0	
KING MTN #3 3650 4/28/11 2 1.0 .0 .0 LAKE CK R.S. SNOTEL 5240 5/01/11 10 4.1 .0 1.3 LITTLE MEADOW SNOTEL 4020 5/01/11 99 46.3 19.1 16.9 LUCKY STRIKE SNOTEL 4970 5/01/11 21 9.1 .0 2.7 MADISON BUTTE SNOTEL 5150 5/01/11 2 .2 .0 .4 MARION FORKS SNOTEL 2590 5/01/11 14 6.5 .0 3.6 MCKENZIE SNOTEL 4770 5/01/11 120 58.2 30.6 40.0 MEACHAM 4300 5/03/11 5 2.0 .0 1.6 MILLER WOODS SNOTEL 420 5/01/11 0 .0 .0 .0 MOSS SPRINGS SNOTEL 5760 5/01/11 86 35.1 17.8 22.3 MT ASHLAND SWBK. 6400 5/02/11 96 39.2 32.3 33.0 MT HOOD TEST SNOTEL 5370 5/01/11 174 68.2 49.8 63.9 MT HOWARD SNOTEL 7910 5/01/11 52 20.0 15.0 16.9 MUD RIDGE SNOTEL 4070 5/01/11 71 29.8 17.5 18.2 NEW CRESCENT SNOTEL 4910 5/01/11 35 8.9 .0 3.0 NEW DUTCHMAN #3 6320 4/27/11 153 62.7 42.1 55.4 NORTH FK RES SNOTEL 3060 5/01/11 80 35.7 11.0 6.9	KING MTN #1	4500	4/28/11	32	12.7	.8	2.8
LAKE CK R.S. SNOTEL 5240 5/01/11 10 4.1 .0 1.3 LITTLE MEADOW SNOTEL 4020 5/01/11 99 46.3 19.1 16.9 LUCKY STRIKE SNOTEL 4970 5/01/11 21 9.1 .0 2.7 MADISON BUTTE SNOTEL 5150 5/01/11 2 9.1 .0 2.7 MARION FORKS SNOTEL 2590 5/01/11 14 6.5 .0 3.6 MCKENZIE SNOTEL 4770 5/01/11 120 58.2 30.6 40.0 MEACHAM 4300 5/03/11 5 2.0 .0 1.6 MILLER WOODS SNOTEL 420 5/01/11 0 .0 .0 .0 .0 MOSS SPRINGS SNOTEL 420 5/01/11 86 35.1 17.8 22.3 MT ASHLAND SWBK. 6400 5/02/11 96 39.2 32.3 33.0 MT HOOD TEST SNOTEL 5370 5/01/11 174 68.2 49.8 63.9 MT HOWARD SNOTEL 5370 5/01/11 52 20.0 15.0 16.9 MUD RIDGE SNOTEL 4070 5/01/11 71 29.8 17.5 18.2 NEW CRESCENT SNOTEL 4910 5/01/11 35 8.9 .0 3.0 NEW DUTCHMAN #3 6320 4/27/11 153 62.7 42.1 55.4 NORTH FK RES SNOTEL 3060 5/01/11 80 35.7 11.0 6.9	KING MTN #2 SNOTE	4340	5/01/11	20	9.3	.0	.9
LITTLE MEADOW SNOTEL 4020 5/01/11 99 46.3 19.1 16.9 LUCKY STRIKE SNOTEL 4970 5/01/11 21 9.1 .0 2.7 MADISON BUTTE SNOTEL 5150 5/01/11 2 .2 .0 .4 MARION FORKS SNOTEL 2590 5/01/11 14 6.5 .0 3.6 MCKENZIE SNOTEL 4770 5/01/11 120 58.2 30.6 40.0 MEACHAM 4300 5/03/11 5 2.0 .0 1.6 MILLER WOODS SNOTEL 420 5/01/11 0 .0 .0 .0 .0 MOSS SPRINGS SNOTEL 420 5/01/11 86 35.1 17.8 22.3 MT ASHLAND SWBK. 6400 5/02/11 96 39.2 32.3 33.0 MT HOOD TEST SNOTEL 5370 5/01/11 174 68.2 49.8 63.9 MT HOWARD SNOTEL 7910 5/01/11 52 20.0 15.0 16.9 MUD RIDGE SNOTEL 4070 5/01/11 71 29.8 17.5 18.2 NEW CRESCENT SNOTEL 4910 5/01/11 35 8.9 .0 3.0 NEW DUTCHMAN #3 6320 4/27/11 153 62.7 42.1 55.4 NORTH FK RES SNOTEL 3060 5/01/11 80 35.7 11.0 6.9	KING MTN #3	3650	4/28/11	2	1.0	.0	
LUCKY STRIKE SNOTEL 4970 5/01/11 21 9.1 .0 2.7 MADISON BUTTE SNOTEL 5150 5/01/11 2 .2 .0 .4 MARION FORKS SNOTEL 2590 5/01/11 14 6.5 .0 3.6 MCKENZIE SNOTEL 4770 5/01/11 120 58.2 30.6 40.0 MEACHAM 4300 5/03/11 5 2.0 .0 1.6 MILLER WOODS SNOTEL 420 5/01/11 0 .0 .0 .0 .0 MOSS SPRINGS SNOTEL 5760 5/01/11 86 35.1 17.8 22.3 MT ASHLAND SWBK. 6400 5/02/11 96 39.2 32.3 33.0 MT HOOD TEST SNOTEL 5370 5/01/11 174 68.2 49.8 63.9 MT HOWARD SNOTEL 7910 5/01/11 52 20.0 15.0 16.9 MUD RIDGE SNOTEL 4070 5/01/11 71 29.8 17.5 18.2 NEW CRESCENT SNOTEL 4910 5/01/11 35 8.9 .0 3.0 NEW DUTCHMAN #3 6320 4/27/11 153 62.7 42.1 55.4 NORTH FK RES SNOTEL 3060 5/01/11 80 35.7 11.0 6.9			5/01/11	10		.0	1.3
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	NORTH FK RES SNOTE	_ 3060			35./	11.0	6.9

SNOW COURSE	ELE	VATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
Oregon (cont.)							
OCHOCO MEADOW S	SNOTEL	5430	5/01/11	24	9.2	.5	1.8
PARK H.Q. REV		6550	4/28/11	177	79.4	54.0	63.1
PEAVINE RIDGE S	SNOTEL	3420	5/01/11	33	17.2	.8	3.7
QUARTZ MTN S	SNOTEL	5720	5/01/11	0	. 0	.0	.1
R.R. OVERPASS S		2680	5/01/11	0	.0	.0	.0
RED BUTTE #1		4560	4/27/11	54	22.8	2.5	6.7
RED BUTTE #2		4000	4/27/11	6	2.2	.0	2.1
		4410	5/01/11	125	68.8	42.2	42.5
ROARING RIVER S		4950	5/01/11	85	40.8	20.1	24.0
		5290	5/01/11	0	.0	.0	.1
		3110	5/01/11	10 74	4.2 36.2	.0	
SALT CK FALLS S SANTIAM JCT. S		4220 3740	5/01/11 5/01/11	7 4 4 4	19.5	8.3	10.5 8.0
SCHNEIDER MDW S		5400	5/01/11	75	32.6	17.7	20.2
		2060	5/01/11	0	.0	.0	.0
SEVENMILE MARSH		5700	5/01/11	95	43.7	24.8	22.6
SILVER BURN		3720	4/28/11	32	13.5	.0	.9
		5740	5/01/11	18	8.9	.0	1.6
	SNOTEL	6990	5/01/11	59	17.7	16.1	13.3
SKI BOWL ROAD		6000	5/02/11	74	32.2	26.2	23.1
SNOW MTN S	SNOTEL	6220	5/01/11	36	15.3	8.2	7.4
SF BULL RUN S	SNOTEL	2690	5/01/11	17	7.5	.1	.1
STARR RIDGE S	SNOTEL	5250	5/01/11	0	.0	.0	.0
STRAWBERRY S	SNOTEL	5770	5/01/11	0	1.0	.0	.8
		7080	5/01/11	63	25.2	14.8	13.0
		5610	5/01/11	133	51.9	40.3	39.4
		5400	5/01/11	44	18.2	11.8	
SWAN LAKE MTN S		6830	5/01/11	75	34.1	20.9	
TANGENT		5400	4/27/11	40	17.2	7.8	11.3
		5030	5/01/11	1	.2	.0	.1
		5740	5/01/11	64	27.8	12.7	10.3
THREE CK MEAD S		5690 5150	5/01/11 5/01/11	66 27	28.8 13.9	16.5 3.0	15.3 4.8
TOKETEE AIRSTRI		3240	5/01/11	0	.0	.0	.1
TOLLGATE		5070	5/03/11	92	44.4	18.6	19.3
		5630	5/03/11	54	20.7	6.0	9.8
California	3110111	0000	0,01,11	01	20.,	0.0	J. 0
ADIN MOUNTAIN		6350	4/28/11	39	16.1	11.0	6.5
ADIN MOUNTAIN ADIN MTN SNOTEI		6190	5/01/11	39	11.1	9.7	6.8
CEDAR PASS SNOT		7030	5/01/11		27.8	15.6	14.3
CROWDER FLAT SN		5170	5/01/11		.0	.0	.0
DISMAL SWAMP SN					49.5		
Idaho							
	SNOTEL	5730	5/01/11	Λ	.0	.0	.0
		6500	5/01/11	56	22.8	8.3	9.4
Nevada	энотыы	0000	3/01/11	30	22.0	0.5	J. 1
BEAR CREEK SNOT	PET	7800	5/01/11	0.5	32.8	14.4	19.0
BIG BEND SNOTEI		6700		29	11.1	2.1	2.3
BUCKSKIN, L SNOTE		6700	5/01/11	43	18.1	1.0	2.3 3.7
DISASTER PEAK S		6500	5/01/11	0	.0	.0	2.9
FAWN CREEK SNOT		7050		63	25.2		
GRANITE PEAK SN		7800	5/01/11	101	37.8	13.5	24.2
JACK CREEK, U S		7280		66	23.3	13.4	17.0
LAMANCE CREEK S		6000	5/01/11	13	5.3	.0	3.9
LAUREL DRAW SNO		6700	5/01/11	32	10.9	3.0	1.6
SEVENTYSIX CK S			5/01/11	26	8.7	4.0	3.9
TAYLOR CANYON S		6200	5/01/11	0	.0	.3	.3

⁽d) denotes discontinued site.

Basin Outlook Reports: How Forecasts Are Made Federal – State – Private Cooperative Snow Surveys

For more water supply and resource management information, contact:

USDA, Natural Resources Conservation Service Snow Survey Office 1201 NE Lloyd Suite 900 Portland, OR 97232

Phone: (503) 414-3270 Web site: http://www.or.nrcs.usda.gov/snow/index.html

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snow courses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

Interpreting Water Supply Forecasts

Each month, five forecasts are issued for each forecast point and each forecast period. Unless otherwise specified, all streamflow forecasts are for streamflow volumes that would occur naturally without any upstream influences. Water users need to know what the different forecasts represent if they are to use the information correctly when making operational decisions. The following is an explanation of each of the forecasts.

90 Percent Chance of Exceedance Forecast. There is a 90 percent chance that the actual streamflow volume will exceed this forecast value, and there is a 10 percent chance that the actual streamflow volume will be less than this forecast value.

70 Percent Chance of Exceedance Forecast. There is a 70 percent chance that the actual streamflow volume will exceed this forecast value, and there is a 30 percent chance that the actual streamflow volume will be less than this forecast value.

50 Percent Chance of Exceedance Forecast. There is a 50 percent chance that the actual streamflow volume will exceed this forecast value, and there is a 50 percent chance that the actual streamflow volume will be less than this forecast value. Generally, this forecast is the middle of the range of possible streamflow volumes that can be produced given current conditions.

30 Percent Chance of Exceedance Forecast. There is a 30 percent chance that the actual streamflow volume will exceed this forecast value, and there is a 70 percent chance that the actual streamflow volume will be less than this forecast value.

10 Percent Chance of Exceedance Forecast. There is a 10 percent chance that the actual streamflow volume will exceed this forecast value, and there is a 90 percent chance that the actual streamflow volume will be less than this forecast value.

*Note: There is still a 20 percent chance that actual streamflow volumes will fall either below the 90 percent exceedance forecast or above the 10 percent exceedance forecast.

These forecasts represent the uncertainty inherent in making streamflow predictions. This uncertainty may include sources such as: unknown future weather conditions, uncertainties associated with the various prediction methodologies, and the spatial coverage of the data network in a given basin.

30-Year Average. The 30-year average streamflow for each forecast period is provided for comparison. The average is based on data from 1971-2000. The % AVG. column compares the 50% chance of exceedance forecast to the 30-year average streamflow; values above 100% denote when the 50% chance of exceedance forecast would be greater than the 30-year average streamflow.

AF - Acre-feet, forecasted volume of water are typically in thousands of acrefeet.

These forecasts are given to users to help make risk-based decisions. Users can select the forecast corresponding to the level of risk they are willing to accept in order to minimize the negative impacts of having more or less water than planned for.

To Decrease the Chance of Having Less Water than Planned for: A user might determine that making decisions based on a 50 percent chance of exceedance forecast is too much risk to take (there is still a 50% chance that the user will receive less than this amount). To reduce the risk of having less water than planned for, users can base their operational decisions on one of the forecasts with a greater chance of being exceeded such as the 90 or 70 percent exceedance forecasts.

To Decrease the Chance of Having More Water than Planned for: A user might determine that making decisions based on a 50 percent chance of exceedance forecast is too much risk to take (there is still a 50% chance that the user will receive more than this amount). To reduce the risk of having more water than planned for, users can base their operational decisions on one of the forecasts with a lesser chance of being exceeded such as the 30 or 10 percent exceedance forecasts.

Using the forecasts - an Example

Using the 50 Percent Exceedance Forecast. Using the example forecasts shown below, there is a 50% chance that actual streamflow volume at the Boise River near Twin Springs will be less than 685 KAF between April 1 and July 31. There is also a 50% chance that actual streamflow volume will be greater than 685 KAF.

Using the 90 and 70 Percent Exceedance Forecasts. If an unexpected shortage of water could cause problems (such as irrigated agriculture), users might want to plan on receiving 610 KAF (from the 70 percent exceedance forecast). There is a 30% chance of receiving less than 610 KAF.

Alternatively, if users determine the risk of using the 70 percent exceedance forecast is too great, then they might plan on receiving 443 KAF (from the **90**

percent exceedance forecast). There is 10% chance of receiving less than 443 KAF.

Using the 30 or 10 Percent Exceedance Forecasts. If an unexpected excess of water could cause problems (such as operating a flood control reservoir), users might plan on receiving 760 KAF (from the 30 percent exceedance forecast). There is a 30% chance of receiving *more* than 760 KAF.

Alternatively, if users determine the risk of using the 30 percent exceedance forecast is too great, then they might plan on receiving 927 KAF (from the 10 percent exceedance forecast). There is a 10% chance of receiving more than 927 KAF.

Users could also choose a volume in between any of these values to reflect their desired risk level.

OWYHEE AND MALHEUR BASINS

Streamflow Forecasts - February 1, 2006

		======= 	: Drier ===		Future Co	onditions =	====== Wetter	=====>> 	
Forecast Point	Forecast	======		==	Chance Of I	Exceeding *			
	Period	90%	70%		50% (Most	Probable)	30%	10%	30-Yr Avg.
		(1000AF)	(1000AF)		(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
MALHEUR near Drewsey	FEB-JUL	 148	184		210	 165	238	282	127
	APR-SEP	87	110	-	128	168	147	177	76
NF MALHEUR at Beulah	FEB-JUL	108	127		141	157	156	178	90
OWYHEE RESV INFLOW (2)	FEB-JUL APR-SEP	602 341	792 473		935 575	134 134	1090 687	1340 869	700 430

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

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Official Business



This publication may be found online at: http://www.or.nrcs.usda.gov/snow/watersupply/

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